# TITLE HERBICIDAL OXADIAZOLIDINES

## **BACKGROUND OF THE INVENTION**

This invention relates to certain oxadiazolidines, processes for their preparation, their N-oxides, agriculturally suitable salts and compositions, and methods of their use for controlling undesirable vegetation. This invention also relates to mixtures of herbicides that have a synergistic effect on weeds or have a safening effect on crops while retaining or increasing weed control.

The control of undesired vegetation is extremely important in achieving high crop efficiency. Achievement of selective control of the growth of weeds especially in such useful crops as rice, soybean, sugar beet, corn (maize), potato, wheat, barley, tomato and plantation crops, among others, is very desirable. Unchecked weed growth in such useful crops can cause significant reduction in productivity and thereby result in increased costs to the consumer. The control of undesired vegetation in noncrop areas is also important. Many products are commercially available for these purposes, but the need continues for new compounds which are more effective, less costly, less toxic, environmentally safer or have different modes of action. *Arch. Pharm.* (1974), 307, 7-12 discloses the chemical structures of *N,N*-disubstituted 4-aryloxazolidindiones. However, it does not disclose the compounds of the present invention.

# **SUMMARY OF THE INVENTION**

This invention is directed to compounds and processes to prepare compounds of Formula 1 including all geometric and stereoisomers, N-oxides, and agriculturally suitable salts thereof, agricultural compositions containing them and their use for controlling undesirable vegetation:

$$Q \longrightarrow (CR^6R^7)_q \longrightarrow N \longrightarrow N \longrightarrow R^1$$

wherein

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Q is H; or C<sub>1</sub>-C<sub>12</sub> alkyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, C<sub>6</sub>-C<sub>14</sub> bicycloalkyl, C<sub>3</sub>-C<sub>12</sub> alkenyl, C<sub>3</sub>-C<sub>10</sub> cycloalkenyl, C<sub>6</sub>-C<sub>14</sub> bicycloalkenyl or C<sub>3</sub>-C<sub>12</sub> alkynyl, each optionally substituted with one or more R<sup>21</sup>; or

Q is a 3- to 7-membered fully saturated or 5- to 7-membered partially saturated heterocyclic ring containing one or two X, provided that (a) when X is other than O or S(O)<sub>n</sub>, then only one X may be present and (b) when two X are present in the ring, they cannot be bonded directly to each other; or

Q is a 5- or 6-membered aromatic heterocyclic ring system containing 1 to 3 heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur, provided that the heterocyclic ring system contains no more than one oxygen and no more than one sulfur, and each heterocyclic ring system is optionally substituted with one or more R<sup>16</sup>; and when Q is a 5- or 6-membered aromatic heterocyclic ring system containing a nitrogen, then Q is bonded through any available carbon or nitrogen atom by replacement of a hydrogen on said carbon or nitrogen atom; or

Q is phenyl optionally substituted with one or more substituents independently selected from the group consisting of R<sup>16</sup>, phenoxy and Z; or

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$$(\mathbb{R}^{12})_t$$
  $(\mathbb{R}^{12})_t$   $(\mathbb{R}^{12})_$ 

Q is -C(R<sup>14</sup>)(=NOR<sup>15</sup>), -C(O)R<sup>19</sup>, -C(O)OR<sup>19</sup>, -C(O)SR<sup>19</sup>, -C(S)R<sup>19</sup>, -C(S)OR<sup>19</sup>, -C(S)SR<sup>19</sup>, -C(O)NR<sup>23</sup>R<sup>24</sup>, -C(S)NR<sup>23</sup>R<sup>24</sup>, -OR<sup>19</sup>, -NR<sup>19</sup>R<sup>20</sup>, -S(O)<sub>n</sub>R<sup>19</sup> or -S(O)<sub>n</sub>NR<sup>19</sup>R<sup>20</sup>;

each X is -O-, -S(O)<sub>n</sub>-, -N=, -NR<sup>10</sup>- or -Si(R<sup>11</sup>)<sub>2</sub>-;

Y is, together with the carbons to which it is attached, a fully or partially saturated 5-, 6- or 7-membered carbocyclic ring optionally substituted with one or more  $C_1$ - $C_4$  alkyl groups; or

Y is, together with the carbons to which it is attached, a fully or partially saturated 5-, 6- or 7-membered heterocyclic ring which contains one or two X and is optionally substituted with one or more R<sup>12</sup>, provided that when said heterocyclic ring contains two X, then one X is other than O;

Z is phenyl or a 5- or 6-membered aromatic heterocyclic ring system containing 1 to 3 heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur, provided that the heterocyclic ring system contains no more than one oxygen and no more than one sulfur, and each phenyl and heterocyclic ring system is optionally substituted with one or more R<sup>16</sup>;

 $R^1$  is  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_6$  haloalkyl,  $C_3$ - $C_6$  alkenyl,  $C_3$ - $C_6$  haloalkenyl,  $C_3$ - $C_6$  alkoxyl,  $C_3$ - $C_6$  haloalkynyl,  $C_1$ - $C_6$  alkoxy,  $C_2$ - $C_6$  alkoxyalkyl or  $C_2$ - $C_6$  haloalkoxyalkyl; or  $R^1$  is  $C_3$ - $C_7$  cycloalkyl or  $C_3$ - $C_7$  cycloalkenyl, each optionally substituted with one or more  $R^5$ ; or

R<sup>1</sup> is phenyl optionally substituted with one or more R<sup>13</sup>; or

R<sup>1</sup> is a 5- or 6-membered aromatic heterocyclic ring system containing 1 to 3 heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur, provided that the heterocyclic ring system contains no more than one oxygen and no more than one sulfur, and each heterocyclic ring system is optionally substituted with one or more R<sup>16</sup>;

R<sup>2</sup> is C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> haloalkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>6</sub> haloalkenyl, C<sub>3</sub>-C<sub>6</sub> alkynyl, C<sub>3</sub>-C<sub>6</sub> haloalkynyl, C<sub>1</sub>-C<sub>6</sub> alkoxy, C<sub>2</sub>-C<sub>6</sub> alkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkoxyalkyl or NR<sup>3</sup>R<sup>4</sup>; or

R<sup>2</sup> is

$$-(CR^{17}R^{18})_q- \underbrace{\hspace{1cm}W}_{(R^8)_{\underline{\mathbf{m}};\; \mathrm{or}}}$$

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R<sup>1</sup> and R<sup>2</sup> are taken together as -CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>- or -CH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>-;

 $R^3$  is  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_6$  haloalkyl,  $C_3$ - $C_6$  alkenyl,  $C_3$ - $C_6$  haloalkenyl,  $C_3$ - $C_6$  haloalkynyl; or

R<sup>3</sup> is C<sub>3</sub>-C<sub>7</sub> cycloalkyl or C<sub>3</sub>-C<sub>7</sub> cycloalkenyl, each optionally substituted with one or more R<sup>5</sup>; or

R<sup>3</sup> is a saturated or partially saturated 5-, 6- or 7-membered heterocyclic ring containing 1 to 2 heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur, and each heterocyclic ring is optionally substituted with one or more R<sup>5</sup>; or

R<sup>3</sup> is phenyl optionally substituted with one or more R<sup>26</sup> groups; or

R<sup>1</sup> and R<sup>3</sup> are taken together with the two nitrogen atoms to which they are attached to form a saturated or partially saturated 5-, 6- or 7-membered heterocyclic ring containing an optional third heteroatom selected from the group consisting of oxygen, sulfur and nitrogen, and said heterocyclic ring is optionally substituted with one or more R<sup>9</sup>; or

R<sup>2</sup> and R<sup>13</sup>, together with the two atoms to which they are attached and the atom between them, form a fully saturated 5-, 6- or 7-membered carbocyclic or heterocyclic ring containing one oxygen, one sulfur or one or two nitrogen

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atoms, said heterocyclic ring is optionally substituted with one or more R<sup>12</sup>, provided that when said heterocyclic ring contains two nitrogen atoms, they are other than bonded directly to each other;

R<sup>4</sup> is H or C<sub>1</sub>-C<sub>4</sub> alkyl; or

- R<sup>3</sup> and R<sup>4</sup> are taken together with the nitrogen atom to which they are attached to form a saturated or partially saturated 5-, 6- or 7-membered heterocyclic ring containing an optional second heteroatom selected from the group consisting of oxygen, sulfur and nitrogen, and said heterocyclic ring is optionally substituted with 1-4 R<sup>9</sup>;
- each R<sup>5</sup> is independently halogen, C<sub>1</sub>-C<sub>4</sub> alkyl or C<sub>1</sub>-C<sub>4</sub> alkoxy; or when two R<sup>5</sup> are attached to the same carbon, then said two R<sup>5</sup> groups are taken together as (=O); each R<sup>6</sup> and R<sup>7</sup> are independently H or C<sub>1</sub>-C<sub>4</sub> alkyl;
  - $R^8$  is independently  $C_1$ - $C_4$  alkyl,  $C_1$ - $C_4$  haloalkyl or  $C_1$ - $C_4$  alkoxy;
  - each  $R^9$  is independently  $C_1$ - $C_4$  alkyl or  $C_1$ - $C_4$  alkoxy; or when two  $R^9$  are attached to the same carbon, then said two  $R^9$  groups are taken together as (=0);
  - W is, together with the carbons to which it is attached, a fully or partially saturated 5-, 6- or 7-membered heterocyclic ring containing one or two X, provided that (a) when X is other than O or S(O)<sub>n</sub>, then only one X may be present; (b) when two X are present in the ring, they cannot be bonded directly to each other; and (c) said heterocyclic ring is bonded to the group (CR<sup>17</sup>R<sup>18</sup>)<sub>a</sub> through other than X;
  - R<sup>10</sup> is H, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> haloalkyl, C<sub>3</sub>-C<sub>4</sub> alkenyl, C<sub>3</sub>-C<sub>4</sub> alkynyl, C<sub>2</sub>-C<sub>4</sub> alkoxycarbonyl or C<sub>2</sub>-C<sub>4</sub> alkylcarbonyl; or R<sup>10</sup> is phenyl optionally substituted with C<sub>1</sub>-C<sub>3</sub> alkyl, halogen, cyano, nitro or C<sub>2</sub>-C<sub>4</sub> alkoxycarbonyl;

each R11 is C1-C4 alkyl;

- each  $R^{12}$  is independently halogen,  $C_1$ - $C_4$  alkyl,  $C_1$ - $C_4$  haloalkyl,  $C_1$ - $C_4$  alkoxy,  $C_1$ - $C_4$  haloalkoxy,  $C_1$ - $C_4$  alkylthio,  $C_1$ - $C_4$  haloalkylthio,  $C_1$ - $C_4$  alkylsufonyl or  $C_2$ - $C_4$  alkoxycarbonyl;
  - each R<sup>13</sup> is independently halogen, C<sub>1</sub>-C<sub>3</sub> alkyl, C<sub>1</sub>-C<sub>3</sub> haloalkyl, C<sub>1</sub>-C<sub>3</sub> alkoxy, C<sub>1</sub>-C<sub>3</sub> haloalkoxy, C<sub>3</sub>-C<sub>6</sub> alkenyloxy, C<sub>3</sub>-C<sub>6</sub> alkynyloxy, C<sub>1</sub>-C<sub>4</sub> alkylthio, C<sub>1</sub>-C<sub>4</sub> haloalkylthio, C<sub>1</sub>-C<sub>4</sub> alkylsufinyl, C<sub>1</sub>-C<sub>4</sub> alkylsufonyl, cyano, amino, nitro or C<sub>2</sub>-C<sub>4</sub> alkoxycarbonyl;
  - $R^{14}$  is H,  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_6$  haloalkyl or  $C_2$ - $C_6$  alkoxyalkyl; or
  - R<sup>14</sup> and R<sup>6</sup>, together with the carbon atoms to which they are bonded, form a 5- or 6-membered saturated carbocyclic ring optionally substituted with one or more C<sub>1</sub>-C<sub>4</sub> alkyl groups;
  - R<sup>15</sup> is H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> haloalkyl, C<sub>3</sub>-C<sub>4</sub> alkenyl or C<sub>3</sub>-C<sub>4</sub> alkynyl;

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each R<sup>16</sup> is independently halogen, nitro, cyano, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> haloalkyl, C<sub>3</sub>-C<sub>4</sub> alkenyl, C<sub>3</sub>-C<sub>4</sub> alkynyl, OR<sup>22</sup>, NR<sup>23</sup>R<sup>24</sup> or S(O)<sub>n</sub>R<sup>19</sup>;
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each R<sup>17</sup> and R<sup>18</sup> are independently H or C<sub>1</sub>-C<sub>4</sub> alkyl;

each R<sup>19</sup> and R<sup>20</sup> are independently C<sub>1</sub>-C<sub>12</sub> alkyl, C<sub>3</sub>-C<sub>8</sub> cycloalkyl, C<sub>3</sub>-C<sub>12</sub> alkenyl, C<sub>3</sub>-C<sub>8</sub> cycloalkenyl or C<sub>3</sub>-C<sub>12</sub> alkynyl, each optionally substituted with one or more R<sup>21</sup>;

each  $R^{21}$  is halogen,  $C_4$ - $C_8$  trialkylsilylalkyl, CN, NO<sub>2</sub>, -OR<sup>22</sup>, -NR<sup>23</sup>R<sup>24</sup>, -S(O)<sub>n</sub>R<sup>22</sup>, -S(O)<sub>n</sub>NR<sup>23</sup>R<sup>24</sup>, -C(O)R<sup>22</sup>, -C(S)R<sup>22</sup>, -C(O)OR<sup>22</sup>, -C(S)OR<sup>22</sup>, -C(S)SR<sup>22</sup>, -C(O)NR<sup>23</sup>R<sup>24</sup>, -C(S)NR<sup>23</sup>R<sup>24</sup>, -CHR<sup>25</sup>COR<sup>22</sup>, -CHR<sup>25</sup>P(O)(OR<sup>22</sup>)<sub>2</sub>, -CHR<sup>25</sup>P(S)(OR<sup>22</sup>)<sub>2</sub>, -CHR<sup>25</sup>C(O)NR<sup>23</sup>R<sup>24</sup>, -CHR<sup>25</sup>C(O)NH<sub>2</sub>, -CHR<sup>25</sup>CO<sub>2</sub>R<sup>22</sup>, phenyl optionally substituted with one or more R<sup>26</sup> groups or

-CHR<sup>23</sup>CO<sub>2</sub>R<sup>22</sup>, phenyl optionally substituted with one or more R<sup>26</sup> groups of benzyl optionally substituted with one or more R<sup>26</sup> groups;

each R<sup>22</sup> is C<sub>1</sub>-C<sub>8</sub> alkyl, C<sub>3</sub>-C<sub>8</sub> cycloalkyl, C<sub>3</sub>-C<sub>8</sub> alkenyl, C<sub>3</sub>-C<sub>8</sub> alkynyl, C<sub>1</sub>-C<sub>8</sub> haloalkyl, C<sub>2</sub>-C<sub>8</sub> alkoxyalkyl, C<sub>2</sub>-C<sub>8</sub> alkylsulfinylalkyl, C<sub>2</sub>-C<sub>8</sub> alkylsulfinylalkyl, C<sub>2</sub>-C<sub>8</sub> alkylsulfonylalkyl, C<sub>4</sub>-C<sub>8</sub> alkoxyalkoxyalkyl, C<sub>4</sub>-C<sub>8</sub> cycloalkylalkyl, C<sub>4</sub>-C<sub>8</sub> alkenoxyalkyl, C<sub>4</sub>-C<sub>8</sub> alkynyloxyalkyl, C<sub>6</sub>-C<sub>8</sub> cycloalkoxyalkyl, C<sub>4</sub>-C<sub>8</sub> alkenyloxyalkyl, C<sub>4</sub>-C<sub>8</sub> alkynyloxyalkyl, C<sub>3</sub>-C<sub>8</sub> haloalkoxyalkyl, C<sub>4</sub>-C<sub>8</sub> haloalkenoxyalkyl, C<sub>4</sub>-C<sub>8</sub> haloalkynyloxyalkyl, C<sub>6</sub>-C<sub>8</sub> cycloalkylthioalkyl, C<sub>4</sub>-C<sub>8</sub> alkenylthioalkyl, C<sub>4</sub>-C<sub>8</sub> alkynylthioalkyl, C<sub>1</sub>-C<sub>4</sub> alkyl substituted with phenoxy or benzyloxy, each ring optionally substituted with halogen, C<sub>1</sub>-C<sub>3</sub> alkyl or C<sub>1</sub>-C<sub>3</sub> haloalkyl, C<sub>4</sub>-C<sub>8</sub> trialkylsilylalkyl, C<sub>3</sub>-C<sub>8</sub> cyanoalkyl, C<sub>3</sub>-C<sub>8</sub> halocycloalkyl, C<sub>3</sub>-C<sub>8</sub> haloalkenyl, C<sub>5</sub>-C<sub>8</sub> alkoxyalkenyl, C<sub>5</sub>-C<sub>8</sub> haloalkoxyalkenyl, C<sub>5</sub>-C<sub>8</sub> alkylthioalkenyl, C<sub>5</sub>-C<sub>8</sub> alkylthioalkynyl, C<sub>5</sub>-C<sub>8</sub> alkylcarbonyl, C<sub>2</sub>-C<sub>8</sub> alkoxy carbonyl, phenyl optionally substituted with halogen, CN, C<sub>1</sub>-C<sub>2</sub> haloalkyl and C<sub>1</sub>-C<sub>2</sub> haloalkoxy or benzyl optionally substituted with halogen, CN, C<sub>1</sub>-C<sub>3</sub> alkyl and C<sub>1</sub>-C<sub>3</sub> haloalkyl;

each R<sup>23</sup> is H or C<sub>1</sub>-C<sub>4</sub> alkyl;

each  $R^{24}$  is  $C_1$ - $C_4$  alkyl or phenyl optionally substituted with one or more  $R^{26}$  groups;  $R^{23}$  and  $R^{24}$  may be taken together as -(CH<sub>2</sub>)<sub>5</sub>-, -(CH<sub>2</sub>)<sub>4</sub>- or -CH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>-,

each ring optionally substituted with C<sub>1</sub>-C<sub>3</sub> alkyl, phenyl or benzyl;

each  $R^{25}$  is H or  $C_1$ - $C_4$  alkyl;

each R<sup>26</sup> is C<sub>1</sub>-C<sub>3</sub> alkyl, C<sub>1</sub>-C<sub>3</sub> haloalkyl, C<sub>1</sub>-C<sub>3</sub> alkoxy, C<sub>1</sub>-C<sub>3</sub> haloalkoxy, C<sub>1</sub>-C<sub>3</sub> alkylthio, C<sub>2</sub>-C<sub>5</sub> alkylcarbonyl, C<sub>2</sub>-C<sub>5</sub> alkoxycarbonyl, halogen, amino, cyano or nitro;

R<sup>28</sup> is H or C<sub>1</sub>-C<sub>4</sub> alkyl;

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X<sup>1</sup> and X<sup>2</sup> are independently O or S; X<sup>3</sup> is O, S or NR<sup>28</sup>; m is 0, 1, 2, 3 or 4; each n is independently 0, 1 or 2; p is 0 or 1; each q is independently 0, 1 or 2; and t is 0, 1 or 2;

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provided that when Q is unsubstituted phenyl,  $X^1$ ,  $X^2$  and  $X^3$  are O, q is 0 and  $R^2$  is methyl, then  $R^1$  is other than methyl.

In the above recitations, the term "alkyl", used either alone or in compound words such as "alkylthio" or "haloalkyl" includes straight-chain or branched alkyl, such as, methyl, ethyl, n-propyl, i-propyl, or the different butyl, pentyl or hexyl isomers. The term "1-2 alkyl" indicates that one or two of the available positions for that substituent may be alkyl. "Alkenyl" includes straight-chain or branched alkenes such as 1-propenyl, 2-propenyl, and the different butenyl, pentenyl and hexenyl isomers. "Alkenyl" also includes polyenes such as 1,2-propadienyl and 2,4-hexadienyl. "Alkynyl" includes straight-chain or branched alkynes such as 1-propynyl, 2-propynyl and the different butynyl, pentynyl and hexynyl isomers. "Alkynyl" can also include moieties comprised of multiple triple bonds such as 2,5-hexadiynyl. "Alkoxy" includes, for example, methoxy, ethoxy, n-propyloxy, isopropyloxy and the different butoxy, pentoxy and hexyloxy isomers. "Alkoxyalkyl" denotes alkoxy substitution on alkyl. Examples of "alkoxyalkyl" include CH<sub>3</sub>OCH<sub>2</sub>, CH<sub>3</sub>OCH<sub>2</sub>CH<sub>2</sub>, CH<sub>3</sub>CH<sub>2</sub>OCH<sub>2</sub>, CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub> and CH<sub>3</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>. "Alkylthio" includes branched or straight-chain alkylthio moieties such as methylthio, ethylthio, and the different propylthio, butylthio, pentylthio and hexylthio isomers. "Cycloalkyl" includes, for example, cyclopropyl, cyclobutyl, cyclopentyl and cyclohexyl. "Saturated Carbocyclic" ring denotes a ring having a backbone consisting of carbon atoms linked to one another by single bonds; unless otherwise specified, the remaining carbon valences are occupied by hydrogen atoms.

The term "halogen", either alone or in compound words such as "haloalkyl", includes fluorine, chlorine, bromine or iodine. Further, when used in compound words such as "haloalkyl", said alkyl may be partially or fully substituted with halogen atoms which may be the same or different. Examples of "haloalkyl" include F<sub>3</sub>C, ClCH<sub>2</sub>, CF<sub>3</sub>CH<sub>2</sub> and CF<sub>3</sub>CCl<sub>2</sub>. The terms "haloalkenyl", "haloalkynyl", "haloalkoxy", and the like, are defined analogously to the term "haloalkyl". Examples of "haloalkenyl" include (Cl)<sub>2</sub>C=CHCH<sub>2</sub> and CF<sub>3</sub>CH<sub>2</sub>CH=CHCH<sub>2</sub>. Examples of "haloalkynyl" include HC≡CCHCl, CF<sub>3</sub>C≡C,

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CCl<sub>3</sub>C≡C and FCH<sub>2</sub>C≡CCH<sub>2</sub>. Examples of "haloalkoxy" include CF<sub>3</sub>O, CCl<sub>3</sub>CH<sub>2</sub>O, HCF<sub>2</sub>CH<sub>2</sub>O and CF<sub>3</sub>CH<sub>2</sub>O.

The total number of carbon atoms in a substituent group is indicated by the "C<sub>i</sub>-C<sub>j</sub>" prefix where i and j are numbers from 1 to 12. For example, C<sub>1</sub>-C<sub>3</sub> alkylsulfonyl designates methylsulfonyl through propylsulfonyl; C<sub>2</sub> alkoxyalkyl designates CH<sub>3</sub>OCH<sub>2</sub>; C<sub>3</sub> alkoxyalkyl designates, for example, CH<sub>3</sub>CH(OCH<sub>3</sub>), CH<sub>3</sub>OCH<sub>2</sub>CH<sub>2</sub> or CH<sub>3</sub>CH<sub>2</sub>OCH<sub>2</sub>; and C<sub>4</sub> alkoxyalkyl designates the various isomers of an alkyl group substituted with an alkoxy group containing a total of four carbon atoms, examples including CH<sub>3</sub>CH<sub>2</sub>OCH<sub>2</sub> and CH<sub>3</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>. In the above recitations, when a compound of Formula 1 contains a heterocyclic ring, all substituents are attached to this ring through any available carbon or nitrogen by replacement of a hydrogen on said carbon or nitrogen.

When a group contains a substituent which can be hydrogen, for example R<sup>3</sup>, then, when this substituent is taken as hydrogen, it is recognized that this is equivalent to said group being unsubstituted.

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Compounds of this invention can exist as one or more stereoisomers. The various stereoisomers include enantiomers, diastereomers, atropisomers and geometric isomers. One skilled in the art will appreciate that one stereoisomer may be more active and/or may exhibit beneficial effects when enriched relative to the other stereoisomer(s) or when separated from the other stereoisomer(s). Additionally, the skilled artisan knows how to separate, enrich, and/or to selectively prepare said stereoisomers. Accordingly, the present invention comprises compounds selected from Formula 1, *N*-oxides and agriculturally suitable salts thereof. The compounds of the invention may be present as a mixture of stereoisomers, individual stereoisomers, or as an optically active form.

One skilled in the art will appreciate that not all nitrogen containing heterocycles can form N-oxides since the nitrogen requires an available lone pair for oxidation to the oxide; one skilled in the art will recognize those nitrogen containing heterocycles which can form N-oxides. One skilled in the art will also recognize that tertiary amines can form N-oxides. Synthetic methods for the preparation of N-oxides of heterocycles and tertiary amines are very well known by one skilled in the art including the oxidation of heterocycles and tertiary amines with peroxy acids such as peracetic and m-chloroperbenzoic acid (MCPBA), hydrogen peroxide, alkyl hydroperoxides such as t-butyl hydroperoxide, sodium perborate, and dioxiranes such as dimethydioxirane. These methods for the preparation of N-oxides have been extensively described and reviewed in the literature, see for example:

T. L. Gilchrist in Comprehensive Organic Synthesis, vol. 7, pp 748-750, S. V. Ley, Ed., Pergamon Press; M. Tisler and B. Stanovnik in Comprehensive Heterocyclic Chemistry, vol. 3, pp 18-20, A. J. Boulton and A. McKillop, Eds., Pergamon Press; M. R. Grimmett and

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B. R. T. Keene in Advances in Heterocyclic Chemistry, vol. 43, pp 149-161, A. R. Katritzky, Ed., Academic Press; M. Tisler and B. Stanovnik in Advances in Heterocyclic Chemistry, vol. 9, pp 285-291, A. R. Katritzky and A. J. Boulton, Eds., Academic Press; and G. W. H. Cheeseman and E. S. G. Werstiuk in Advances in Heterocyclic Chemistry, vol. 22, pp 390-392, A. R. Katritzky and A. J. Boulton, Eds., Academic Press.

The salts of the compounds of the invention include acid-addition salts with inorganic or organic acids such as hydrobromic, hydrochloric, nitric, phosphoric, sulfuric, acetic, butyric, fumaric, lactic, maleic, malonic, oxalic, propionic, salicylic, tartaric, 4-toluenesulfonic or valeric acids.

Preferred compounds for reasons of better activity and/or ease of synthesis are:
Preferred 1. Compounds of Formula 1 wherein

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Q is H; or  $C_1$ - $C_{12}$  alkyl,  $C_3$ - $C_8$  cycloalkyl,  $C_3$ - $C_{12}$  alkenyl,  $C_3$ - $C_8$  cycloalkenyl or  $C_3$ - $C_{12}$  alkynyl, each optionally substituted with one or more  $R^{21}$ ; or

Q is a 3- to 7-membered fully saturated or 5- to 7-membered partially saturated heterocyclic ring containing one or two X, provided that (a) when X is other than O or S(O)<sub>n</sub>, then only one X may be present and (b) when two X are present in the ring, they cannot be bonded directly to each other; or

Q is a 5- or 6-membered aromatic heterocyclic ring system containing 1 to 3 heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur, provided that the heterocyclic ring system contains no more than one oxygen and no more than one sulfur, and each heterocyclic ring system is optionally substituted with one or more R<sup>16</sup>; and when Q is a 5- or 6-membered aromatic heterocyclic ring system containing a nitrogen, then Q is bonded through any available carbon or nitrogen atom by replacement of a hydrogen on said carbon or nitrogen atom; or

Q is phenyl optionally substituted with one or more substituents independently selected from the group consisting of  $\mathbb{R}^{16}$ , phenoxy and Z.

Preferred 2. Compounds of Preferred 1 wherein

Q is  $C_1$ - $C_{12}$  alkyl,  $C_3$ - $C_8$  cycloalkyl,  $C_3$ - $C_{12}$  alkenyl,  $C_3$ - $C_8$  cycloalkenyl or  $C_3$ - $C_{12}$  alkynyl, each optionally substituted with one or more  $\mathbb{R}^{21}$ .

Preferred 3. Compounds of Preferred 1 wherein

Q is a 3- to 7-membered fully saturated or 5- to 7-membered partially saturated heterocyclic ring containing one or two X, provided that (a) when X is other than O or S(O)<sub>n</sub>, then only one X may be present and (b) when two X are present in the ring, they cannot be bonded directly to each other; or

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Q is a 5- or 6-membered aromatic heterocyclic ring system containing 1 to 3 heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur, provided that the heterocyclic ring system contains no more than one oxygen and no more than one sulfur, and each heterocyclic ring system is optionally substituted with one or more R<sup>16</sup>; and when Q is a 5- or 6-membered aromatic heterocyclic ring system containing a nitrogen, then Q is bonded through any available carbon or nitrogen atom by replacement of a hydrogen on said carbon or nitrogen atom.

10 Preferred 4. Compounds of Preferred 1 wherein

Q is phenyl optionally substituted with one or more substituents independently selected from the group consisting of  $R^{16}$ , phenoxy and Z.

Preferred 5. Compounds of Preferred 2 wherein

Q is  $C_1$ - $C_6$  alkyl optionally substituted with one or more  $R^{21}$ ,  $C_5$ - $C_7$  cycloalkyl,  $C_3$ - $C_7$  alkenyl or  $C_3$ - $C_6$  alkynyl.

Preferred 6. Compounds of Preferred 3 wherein

Q is a 5- or 6-membered aromatic heterocyclic ring system containing 1 to 3 heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur, provided that the heterocyclic ring system contains no more than one oxygen and no more than one sulfur, and each heterocyclic ring system is optionally substituted with one or more R<sup>16</sup>; and when Q is a 5- or 6-membered aromatic heterocyclic ring system containing a nitrogen, then Q is bonded through any available carbon or nitrogen atom by replacement of a hydrogen on said carbon or nitrogen atom.

Preferred 7. Compounds of Preferred 4 wherein

Q is phenyl optionally substituted with one or more substituents independently selected from the group consisting of R<sup>16</sup>.

Preferred 8. Compounds of Preferred 2, Preferred 3 or Preferred 4 wherein  $X^1$ ,  $X^2$  and  $X^3$  are O.

Preferred 9. Compounds of Preferred 7 wherein

Q is phenyl with substituents on the 2-, and 6-position independently selected from the group consisting of R<sup>16</sup>.

Preferred 10. Compounds of Preferred 5 wherein q is 0 or 1.

Preferred 11. Compounds of Preferred 6 wherein

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q is 0 or 1.

Preferred 12. Compounds of Preferred 7 wherein q is 0 or 1.

Preferred 13. Compounds of Preferred 1 wherein

 $R^1$  is phenyl substituted with one or more  $R^{13}$ .

Preferred 14. Compounds of Preferred 1 wherein

R<sup>2</sup> is C<sub>2</sub>-C<sub>6</sub> alkyl, C<sub>2</sub>-C<sub>6</sub> haloalkyl or C<sub>2</sub>-C<sub>6</sub> alkoxyalkyl.

Most preferred is the compound of Formula 1 which is selected from the group consisting of:

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- (a) N-(4-fluorophenyl)-N-(1-methylethyl)-4-(2-methylphenyl)-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide;
- (b) 4-(2,6-dimethylphenyl)-*N*-(4-fluorophenyl)-*N*-(1-methylethyl)-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide;
- (c) 4-(2,6-dimethylphenyl)-N-(1-methylethyl)-3,5-dioxo-N-phenyl-1,2,4-oxadiazolidine-2-carboxamide;
- (d) 4-cyclohexyl-N-(1-methylethyl)-3,5-dioxo-N-phenyl-1,2,4-oxadiazolidine-2-carboxamide;
- (e) 4-cyclohexyl-N-(4-fluorophenyl)-N-(1-methylethyl)-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide;

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- (f) N,4-bis(1-methylethyl)-3,5-dioxo-N-phenyl-1,2,4-oxadiazolidine-2-carboxamide;
- (g) N-(4-fluorophenyl)-N-(1-methylethyl)-3,5-dioxo-4-(cyclopropyl)-1,2,4-oxadiazolidine-2-carboxamide; and
- (h) N-(4-fluorophenyl)-N,4-bis(1-methylethyl)-3,5-dioxo-1,2,4-oxadiazolidine-carboxamide.

The oxadiazolidines of Formula 1 are useful as herbicides. The present invention also relates to processes for preparing an oxadiazolidine of Formula 1. The present processes for preparing the oxadiazolidines of Formula 1 provided herein are characterized by employing a process sequence selected from process sequences A, B, C, D or E as described below.

# **PROCESS SEQUENCE A**

A process for preparing a compound of Formula 1

$$Q \longrightarrow (CR^6R^7)_q \longrightarrow X^1$$

wherein Q,  $R^6$ ,  $R^7$ , q,  $X^1$ ,  $X^2$ ,  $X^3$ ,  $R^1$  and  $R^2$  are as defined above, comprising:

(a) contacting a compound of Formula 5

wherein  $R^{27}$  is  $-(CR^6R^7)_q$ -Q, with a compound of Formula 4

$$Q - (CR^6R^7)_q - X^4$$

wherein  $X^4$  is halogen or mesylate, in the presence of a base to provide a compound of Formula 3

$$R^{27}X^2$$
 $Q \longrightarrow (CR^6R^7)_q \longrightarrow N$ 
 $X^1$ 
, and

10 (b) contacting the compound of Formula 3 with a carbamoyl or thiocarbamoyl chloride of Formula 2

$$\begin{array}{c|c}
R^{1} & X^{3} \\
R^{2} & 2
\end{array}$$

# PROCESS SEQUENCE B

A process for preparing a compound of Formula 1

$$Q - (CR^6R^7)_q - N = \begin{pmatrix} X^2 & X^3 & \\ & & &$$

wherein Q,  $R^6$ ,  $R^7$ , q,  $X^1$ ,  $X^2$ ,  $X^3$ ,  $R^1$  and  $R^2$  are as defined above, comprising:

(a) contacting a compound of Formula 5

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wherein  $R^{27}$  is  $-(CR^6R^7)_q$ -Q, with an alcohol of Formula 6

$$Q - (CR^6R^7)_q - OH$$

under reaction conditions involving a tertiary phosphine and an azo compound to provide a compound of Formula 3

$$Q - (CR^6R^7)_q - N$$

$$3 \quad X^1$$

, and

(b) contacting the compound of Formula 3 with a carbamoyl or thiocarbamoyl chloride of Formula 2

$$\begin{array}{c|c}
R^{1} & X^{3} \\
N & 2
\end{array}$$

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# PROCESS SEQUENCE C

A process for preparing a compound of Formula 1

$$Q \longrightarrow (CR^6R^7)_q \longrightarrow N \longrightarrow N \longrightarrow R^1$$

$$X^2 \longrightarrow N \longrightarrow R^1$$

$$X^1 \longrightarrow R^2$$

wherein Q, R<sup>6</sup>, R<sup>7</sup>, q, X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, R<sup>1</sup> and R<sup>2</sup> are as defined above, comprising:
(a) contacting a compound of Formula 5

wherein  $R^{27}$  is  $-(CR^6R^7)_q$ -Q, with a carbamoyl or thiocarbamoyl chloride of Formula 2

$$\begin{array}{c|c}
R^{1} & X^{3} \\
 & X^{2} & Z
\end{array}$$

in the presence of a base to provide the compound of Formula 1

$$\begin{array}{c|c}
X^2 & X^3 \\
R^{27} - N & N & R^1 \\
X^1 & 1
\end{array}$$

directly or a compound of Formula 7

H-N 
$$\stackrel{X^2}{\longrightarrow} \stackrel{X^3}{\longrightarrow} \stackrel{R^1}{\longrightarrow} \stackrel{R^1}{\longrightarrow} \stackrel{X^1}{\longrightarrow} \stackrel{7}{\longrightarrow} \stackrel{7}{\longrightarrow} \stackrel{14}{\longrightarrow} \stackrel{14}{\longrightarrow} \stackrel{14}{\longrightarrow} \stackrel{14}{\longrightarrow} \stackrel{14}{\longrightarrow} \stackrel{14}{\longrightarrow} \stackrel{14}{\longrightarrow} \stackrel{1}{\longrightarrow} \stackrel{1}{\longrightarrow}$$

(b) contacting the compound of Formula 7 with an alcohol of Formula 6

$$Q - (CR^6R^7)_q - OH$$

5 under reaction conditions involving a tertiary phosphine and an azo compound or with a compound of Formula 4

$$Q \leftarrow (CR^6R^7)_q - X^4$$

in the presence of a base.

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# PROCESS SEQUENCE D

A process for preparing a compound of Formula 1

$$Q \longrightarrow (CR^6R^7)_q \longrightarrow N \longrightarrow R^1$$

$$X^1$$

wherein Q, R<sup>6</sup>, R<sup>7</sup>, q, X<sup>2</sup>, X<sup>3</sup>, R<sup>1</sup> and R<sup>2</sup> are as defined above, and X<sup>1</sup> is O, comprising:

(a) contacting a compound of Formula 19

with phosgene or thiophosgene to provide a compound of Formula 20

$$Q-(CR^{6}R^{7})_{q}-N$$

$$Q=CR^{6}R^{7})_{q}-N$$

$$Q=CR^{6}R^{7}$$

$$Q=CR^{6}R^{7}$$

$$Q=CR^{6}R^{7}$$

$$Q=CR^{6}R^{7}$$

$$Q=R^{1}$$

(b) contacting the compound of Formula 20 with hydroxylamine, following by treatment with a base, and then an acid, to provide a compound of Formula 8

Q-
$$(CR^6R^7)_q$$
-NH

8  $X^1$ 
, and

(c) contacting the compound of Formula 8 with a compound of Formula 2

$$\begin{array}{c|c}
R^{1} & X^{3} \\
N & 2
\end{array}$$

## PROCESS SEQUENCE E

10 A process for preparing a compound of Formula 1

$$Q - (CR^6R^7)_q - N = \begin{pmatrix} X^2 & X^3 & X^1 & X^2 & X^3 & X^4 & X^4$$

wherein Q, R<sup>6</sup>, R<sup>7</sup>, q, X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, R<sup>1</sup> and R<sup>2</sup> are as defined above, comprising:

(a) contacting a compound of Formula 2

$$\begin{array}{c|c}
R & X^3 \\
 & & CI \\
 & & 2
\end{array}$$

with hydroxylamine in the presence of a base to provide a compound of Formula 22

$$R^1$$
 $R^2$ 
 $R^2$ 
 $R^2$ 
 $R^2$ 
 $R^2$ 
 $R^2$ 
 $R^3$ 
 $R^4$ 
 $R^2$ 

(b) contacting the compound of Formula 22 with a compound of Formula 23

$$CI - C - N = C = X^2$$

5 in the presence of a base to provide a compound of Formula 7

(c) contacting the compound of Formula 7 with an alcohol of Formula 6

$$Q - (CR^6R^7)_q - OH$$

10 under reaction conditions involving a tertiary phosphine and an azo compound or with a compound of Formula 4

$$Q - (CR^6R^7)_q - X^4$$

in the presence of a base.

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# PROCESS SEQUENCE F

A process for preparing a compound of Formula 1

$$Q \longrightarrow (CR^6R^7)_q \longrightarrow \bigvee_{X^1} \bigvee_{Q \longrightarrow R^2} \bigvee_{R^2} \bigcap_{R^2} \bigcap_{R^2$$

wherein Q,  $R^6$ ,  $R^7$ , q,  $X^1$ ,  $X^2$ ,  $X^3$ ,  $R^1$  and  $R^2$  are as defined above, comprising contacting a compound of Formula 7

$$\begin{array}{c|c}
X^2 & X^3 \\
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5 with an orthoformate of Formula 24

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wherein  $R^{27}$  is  $-(CR^6R^7)_q$ -Q, in the presence of a base.

# PROCESS SEQUENCE G

A process for preparing a compound of Formula 1

$$Q \longrightarrow (CR^6R^7)_q \longrightarrow \bigvee_{N}^{X^2} \bigvee_{R^2}^{X^3} \bigvee_{R^2}^{R^1}$$

wherein Q, R<sup>6</sup>, R<sup>7</sup>, q, X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, R<sup>1</sup> and R<sup>2</sup> are as defined above, comprising:

(a) contacting a compound of Formula 8

$$Q - (CR^{6}R^{7})_{q} - N$$

$$X^{1}$$

$$R$$

$$R$$

$$R$$

with a compound of Formula 26

to provide a compound of Formula 25

$$Q - (CR^6R^7)_q - N$$
 $X^2$ 
 $X^3$ 
 $X^3$ 

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or a compound of Formula 27

$$Q - (CR^{6}R^{7})_{q} - N$$
 $X^{1}$ 
 $X^{2}$ 
 $X^{3}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{3}$ 
 $X^{2}$ 
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 $X^{3}$ 
 $X^{2}$ 
 $X^{3}$ 
 $X^{3}$ 

in the presence of a catalyst such as hexamethylguanidinium chloride; and

(b) contacting the compound of Formula 25 or Formula 27 with an amine of Formula

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in the presence of a base.

The present invention also relates to an intermediate compound of Formula 5

wherein

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 $R^{27}$  is -(CR<sup>6</sup>R<sup>7</sup>)<sub>q</sub>-Q; R<sup>6</sup>, R<sup>7</sup>, q, Q, X<sup>1</sup> and X<sup>2</sup> are as defined above for Formula 1; provided that when X<sup>1</sup> and X<sup>2</sup> are O and q is 0, then Q is other than unsubstituted benzyl. The present invention also relates to intermediate compounds of Formula 8 and Formula 20

wherein

 $R^6$ ,  $R^7$ , q, Q and  $X^2$  are as defined above for Formula 1; and  $X^1$  is O; provided that when  $X^2$  is O and q is 0, then Q is other than unsubstituted benzyl.

The oxadiazolidines of Formula 1 can be used alone or in combination with other commercial pesticides. The present invention also relates to certain rare combinations that surprisingly give greater-than-expected or synergistic effect, or give a less-than-additive or safening effect on crops while retaining or increasing synergistically weed control. The mixtures of compounds of Formula 1 and certain sulfonylureas have now been discovered to synergistically control weeds. Also, the mixtures of compounds of Formula 1 and safeners such as dichlormid or naphthalic anhydride have now been discovered to exhibit a crop safening effect while retaining or synergistically increasing weed control.

This invention also relates to a herbicidal composition comprising a herbicidally effective amount of a compound of Formula 1 and at least one of a surfactant, a solid diluent or a liquid diluent. The preferred compositions of the present invention are those which comprise the above preferred compounds.

This invention also relates to a method for controlling the growth of undesired vegetation comprising contacting the vegetation or its environment with a herbicidally effective amount of a compound of Formula 1.

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# **DETAILS OF THE INVENTION**

Compounds of the Formula 1 can be readily prepared by one skilled in the art by using the reactions and techniques described in Scheme 1 to Scheme 10 below. In cases where a substituent of the starting material is not compatible with the reaction conditions described for any of the reaction schemes, the substituent can be converted to a protected form prior to the described reaction scheme and then deprotected after the reaction using commonly accepted protection/deprotection techniques (see Green, T. W and Wuts, P. G., *Protecting Groups in Organic Transformations*, 2nd Edition, John Wiley and Sons, New York, 1991). Otherwise, alternative approaches known to one skilled in the art are available. The definitions of Q, X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, R<sup>1</sup>, R<sup>2</sup>, R<sup>6</sup>, R<sup>7</sup>, and q in compounds of Formulae 1-21 below are as defined in the Summary of the Invention.

As shown in Scheme 1, compounds of Formula 1 can be obtained by the reaction of oxadiazolidines of Formula 8 with carbamyl chlorides of Formula 2. The preferred solvent for the carbamoylation reaction is an inert solvent such as tetrahydrofuran, toluene, benzene or dioxane. The presence of a tertiary amine base such as triethylamine or diisopropylethylamine is preferable. Use of an acylation catalyst such as 4-dimethylaminopyridine or 4-pyrrolidinopyridine in a catalytic or stoichiometric amount is preferred. Other bases such as alkali hydroxide, carbonates or hydrides may also be employed. The reaction can be carried out at temperatures between 20 to 150 °C.

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# SCHEME 1

$$Q = (CR^{6}R^{7})q = N$$

$$X^{1}$$

$$R^{1}$$

$$R^{2}$$

Oxadiazolidines of Formula 8 can be prepared by methods known in the literature. Zinner reported the preparation of a wide variety of oxadiazolidines. See, for example: Arch. Pharm. (1965), 298, 580-587; Arch. Pharm. (1971), 303, 139-144, German patent application, DE 2010396 (1971). As shown in Scheme 2, a hydroxyurea or hydroxythiourea of Formula 9 is reacted with an activated carbonyl or thiocarbonyl compound of Formula 10 in the presence of a base to give compounds of Formula 8. Examples of suitable activated carbonyl compounds are ethyl chloroformate, phenyl chloroformate, carbonyl diimidazole, phosgene, diphosgene or triphosgene. Examples of suitable activated thiocarbonyl

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compounds are carbon disulfide, thiophosgene and thiocarbonyldiimidazole. Suitable bases include alkali carbonates, tertiary amines such as triethylamine and alkali hydroxides. The reaction can be carried out in a variety of solvents including tetrahydrofuran, toluene, dichloromethane, chloroform, acetonitrile or dioxane. The reaction may also be carried out in two-phase mixtures of water and an organic solvent such as dichloromethane, ethyl acetate or toluene. Depending on the reactivity of the carbonyl or thiocarbonyl compound, the reaction may be carried out at temperatures from 0 to 150 °C.

## **SCHEME 2**

$$Q-(CR^{6}R^{7})_{q} \xrightarrow{X^{2}} OH + M^{2} \xrightarrow{Base} 8$$

$$9 \qquad 10$$

M<sup>1</sup>, M<sup>2</sup> is halogen, phenoxy, OCH<sub>3</sub>, OC<sub>2</sub>H<sub>5</sub> or imidazole

As shown in Scheme 3, compounds of Formula 8a wherein X<sup>1</sup> and X<sup>2</sup> are O can be made via the method of Zinner, Arch. Pharm. (1981), 314, 294-302. The reaction of isocyanates of Formula 11 with hydroxyurethanes of Formula 12 gives compounds of Formula 8a. The cyclization can be carried out in a variety of solvents such as acetone, dichloromethane, tetrahydrofuran, dioxane, ethyl acetate, and other solvents inert to isocyanates. The presence of a base such as triethylamine or sodium hydroxide is also useful. The reaction may be carried out at temperatures from 20 to 150 °C.

## **SCHEME 3**

$$Q-(CR^{6}R^{7})_{q}-NCX^{2} + HO COOR$$

$$Q-(CR^{6}R^{7})_{q}-NCX^{2} + HO COOR$$

$$11 12 X^{1}$$

$$(R is alkyl, alkyl or aryl) 8a (wherein X^{1} and X^{2} are O)$$

Carbamyl chlorides of Formula 2a (which are compounds of Formula 2 wherein X<sup>3</sup>
is O) are well known in the literature and can be made by the reaction of amines of Formula
13 with phosgene or a phosgene equivalent such as di- or triphosgene as shown in Scheme 4.
The presence of a base is useful and the use of hindered tertiary amines such as

diisopropylethyl amine is preferred. The reaction can be carried out in a variety of solvents such as toluene or benzene that are inert to phosgene and its equivalents. The reaction can be carried out at temperatures from 0 to 120 °C.

## **SCHEME 4**

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As shown in Scheme 5, hydroxyureas and thioureas of Formula 9 can be prepared from the reaction of hydroxylamine with isocyanates or isothiocyanates of Formula 11. The reaction is carried out in a two-phase reaction medium consisting of water and an organic solvent such as toluene, benzene, dichloroethane, dichloromethane, ethyl acetate or chlorobutane. The hydroxylamine employed can be a commercially available aqueous solution or can be prepared *in situ* from the reaction of an acid addition salt of hydroxylamine with an alkali hydroxide or carbonate. The reaction is generally carried out at temperatures between 0 and 40 °C.

# **SCHEME 5**

$$Q-(CR^{6}R^{7})_{q}-NCX^{2} \xrightarrow{NH_{2}OH} Q-(CR^{6}R^{7})_{q} \xrightarrow{NH_{2}OH} OH$$
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Isocyanates of Formula 11a are commercially available or can be prepared from amines of Formula 14 as shown in Scheme 6. The reaction of phosgene or its equivalents (such as di- and triphosgene) with amines or amine hydrochlorides of Formula 14 gives the isocyanates of Formula 11a. This reaction is well known in the literature and can be carried out in a variety of solvents such as toluene, benzene, ethyl acetate or dichloroethane which are inert to phosgene. Depending upon the reactivity of the amine of Formula 14, the reaction may be carried out at temperatures from 0 to 200 °C.

Phosgene or equivalent 
$$Q-(CR^6R^7)_q-NH_2$$

$$Q-(CR^6R^7)_q-N=C=X^2$$
14
$$11a \text{ (wherein } X^2 \text{ is O)}$$

As shown in Scheme 7, isocyanates of Formula 11a can also be formed from activated acids of Formula 15. Acid halides, anhydrides, imidazolides and the like can be reacted with various azides to provide, after a Curtius rearrangement, the isocyanates of Formula 11a. The azide used may be an alkali azide, trialkylsilyl azide or trialkylstannyl azide. The reaction may be carried out in solvents such as toluene, tetrahydrofuran, ethyl acetate, dioxane, benzene, or methyl tert-butyl ether. When an alkali azide is employed, biphasic aqueous solvents or miscible aqueous containing mixtures are preferred in the formation of the acyl azide intermediate. For further examples of Curtius rearrangements, see: March, J. Advanced Organic Chemistry, 3rd edition; John Wiley & Sons, 1985; pp 984-985 and 380. See also Kim, World Patent Application 98/51683 (1998) and Larock, Comprehensive Organic Transformations, VCH, 1989, pp 931-932.

# SCHEME 7

Q-
$$(CR^6R^7)_q$$
-COT  $\xrightarrow{M-N_3}$  Q- $(CR^6R^7)_q$ -N=C= $X^2$   
15 11a (wherein  $X^2$  is O)

T is halogen, imidazole, etc.

M is alkali metal, trialkylsilyl or trialkylstannyl

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As shown in Scheme 8, compounds of Formula 9 can also be made by the reaction of compounds of Formula 16 with hydroxylamine. The reaction may be carried out in a number of different solvents including tetrahydrofuran, dioxane, acetonitrile, dimethylformamide and dimethylsulfoxide. Temperatures from 0 to 160 °C may be employed in this transformation. Many compounds of Formula 16 are known, and can be made by the reaction of commercially available chloroformates and chlorothioformates with compounds of Formula 14.

$$Q \longrightarrow (CR^6R^7)_q \longrightarrow NH_2OH \longrightarrow 9$$

(W is H, halogen or NO2)

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As shown in Scheme 9, compounds of Formula 9 can also be made by the reaction of activated hydroxylamines of Formula 17 with amines of Formula 14. The reaction may be carried out in a number of different solvents including tetrahydrofuran, dioxane, acetonitrile, dimethylformamide and dimethylsulfoxide. In some cases lower alcohols or even mixtures of water and alcohols may also be employed. Temperatures from 0 to 160 °C may be employed in this transformation. Compounds of Formula 17 are known in the literature and can be made from hydroxylamine and activated esters or thioesters (See Oesper and Broker, J. Am. Chem. Soc., 1925, 47, 2607; Defoin et. al., Helv. Chim. Acta., 1992, 75, 109-123; and Stewart and Brooks, J. Org. Chem., 1992, 57, 5020-5023).

## SCHEME 9

$$14 + HO \bigvee_{H}^{X^2} O \bigvee_{17}^{W} \longrightarrow 9$$

(W is H, halogen or NO2)

Compounds of Formula 2b (which are compounds of Formula 2 wherein  $X^3$  is NR<sup>23</sup>) can be made by the chlorination of ureas of Formula 18 as shown in Scheme 10. The chlorination may be carried out with a wide variety of reagents such as phosphorus oxychloride, thionyl chloride, phosphorous pentachloride, or triphenylphosphine reagents with carbon tetrachloride or chlorine. A variety of solvents may be used including halogenated solvents such as dichloromethane, dichloroethane, or trichloroethane. A preferred solvent of the transformation is dimethylformamide. The reaction may be carried out from 0 to 150 °C. Some known chloroamidine compounds and their synthesis may be found in Reid, *Chem. Ber.*, 1975, 108, 2290-2299.; Kuehle et al.; *Angew. Chem.*; 1969; 81; 18; and Shevchenko, V.I. et al.; *J. Gen. Chem. USSR* (Engl.Transl.); 1976; 46; 535-539.

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#### SCHEME 10

Many isothiocyanates of Formula 11a are commercially available. Amines of Formula 13 are commercially available or can be prepared by methods disclosed in the literature. See the following references and references cited therein for synthesis of these materials: Kim, World Patent Application 98/51683 (1998); Dhar, World Patent Application 98/35961 (1998); Rorer, World Patent Application 98/25912 (1998); and Morita et. al., World Patent Application WO 98/11079 (1998).

Amines of Formula 14 are commercially available or can be synthesized by methods known in the art. See the following references and references cited therein for synthesis of these materials: Kim, World Patent Application 98/51683 (1998); Dhar, World Patent Application 98/35961(1998); Rorer, World Patent Application 98/25912 (1998), Goto et. al., European Patent Application EP 695748 (1996); Goto et. al., European Patent Application EP 771,797 (1997); and Goto et. al. US patent 5,589,439 (1996).

Activated carboxylic acids of Formula 10 are commercially available or can be prepared by methods disclosed in the literature. See the following references and references cited therein for the synthesis of these materials: Kim, World Patent Application 98/51683 (1998); Dhar, World Patent Application 98/35961(1998); Rorer World Patent Application 98/25912 (1998); and Goto et. al., European Patent Application EP 695748 (1996). See also Larock, Comprehensive Organic Transformations, VCH, 1989, p 821 for a list of comprehensive references for the synthesis and chemistry of carboxylic acids and activated derivatives.

This invention is further directed to processes for the preparation of compounds of Formula 1 using process sequences described below.

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#### PROCESS SEQUENCE A

#### STEP 1

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$$X^{1}$$
 $X^{2}$ 
 $X^{2$ 

Step 1 forms compounds of Formula 3 by contacting compounds of Formula 5 with compounds of Formula 4 in the presence of a suitable base either neat or in a suitable solvent.

Compounds of Formula 5 may be prepared, for example, by methods described in *Synthesis*, 1991, 265.

For Step 1, the reaction temperature is generally from -10 to 250 °C, preferably from 0 to 100 °C. The reaction times are generally from 0.25 to 48 h, preferably from 0.25 to 24 h. Generally, the pressure is in the range of 1.013 x 10<sup>2</sup> to 2.026 x 10<sup>2</sup> KPa, preferably ambient pressure. Suitable solvents include typical organic solvents in which the reactants can be dissolved and the process of Step 1 can proceed without interference. Examples of such reactants include aromatics such as benzene, toluene, xylene, chlorobenzene and dichlorobenzene, ethers such as dioxane and tetrahydrofuran, nitriles such as acetonitrile and propionitrile, ethyl acetate, dichloromethane, dichloroethane, and polar aprotic solvents such as dimethylformamide and dimethylsulfoxide.

Suitable bases include organic trialkylamines such as trimethylamine, triethylamine, diisopropylethylamine, tributylamine and the like, dimethylaniline, *N*,*N*-dimethylaminopyridine, *N*-methylmorpholine, 1,8-diazabicyclo[5.4.0]undec-7-ene, 1,4-diazabicyclo[2.2.2]octane and 1,5-diazabicyclo[4.3.0]non-5-ene. 1,8-Diazabicyclo[5.4.0]-undec-7-ene is a particularly useful organic base for this reaction. Inorganic bases include, but are not limited to, potassium carbonate, sodium carbonate, potassium hydride, sodium hydride, lithium carbonate and cesium carbonate.

A phase transfer catalyst can accelerate the reaction in the presence of inorganic bases. Phase transfer catalysts include tetraalkylammonium halides, crown ethers, phosphonium salts, silicon analogs of crown ethers and acyclic analogs of crown ethers. Particularly useful as a base is the combination of potassium carbonate and a phase transfer catalyst.

Generally at least an equimolar amount of the Formula 4 compound is used in respect to the Formula 5 compound, and preferably at least a small molar excess of the Formula 4 compound is used. More particularly, the molar ratio of the Formula 4 compound to the

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Formula 5 compound is usually in the range of 1.05:1 to 10:1. In most cases, the molar ratio of the Formula 5 compound to the Formula 4 compound is preferably in the range of 1.1:1 to 1.5:1. Generally at least an equivalent of base is used in respect to the Formula 5 compound, and preferably at least a small equivalent excess of the base is used. More particularly, the ratio of the number of equivalents of base to number of moles of the Formula 5 compound is usually in the range of 1.05:1 to 10:1. In most cases, the ratio of the number of equivalents of base to number of moles of the Formula 5 compound is preferably in the range of 1.1:1 to 1.5:1. The equivalent amount of base may be similar to the molar amount of the Formula 4 compound, but this is not necessary.

The compound of Formula 4 is preferably added to the reaction mixture containing the compound of Formula 5 and a base either neat or in a solvent. The reaction temperature is maintained during and after the addition and until the reaction reaches completion.

Isolation of product of Step 1 can be accomplished by standard workup procedures or the resultant mixture can be used directly in Step 2.

## 15 STEP 2

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$$3 + \frac{R^{1}}{R^{2}} \stackrel{X^{3}}{\longrightarrow} Cl \qquad \frac{Base}{Solvent} \qquad X^{1} \stackrel{X^{2}}{\longrightarrow} \frac{R^{1}}{N} \stackrel{R^{2}}{\longrightarrow} \frac{R^{2}}{N} \stackrel{R^{2}}{\longrightarrow} \frac{$$

Step 2 forms compounds of Formula 1 from the reaction of compounds of Formula 3 with compounds of Formula 2 in the presence of a suitable base in a suitable solvent.

For Step 2, the general and preferred reaction conditions are the same as the ones described above for Step 1.

Alternatively, the processes of Step 1 and 2 can be combined without isolating product of Step 1 and preferably, the reaction conditions (e.g. temperature, mole ratio, reaction time etc) are balanced to achieve a high yield of compound of Formula 1.

The compound of Formula 1 can be isolated by standard procedures.

# **PROCESS SEQUENCE B**

# STEP 1

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Step 1 forms the compounds of Formula 3 from the reaction of compounds of Formula 5 with compounds of Formula 6 under Mitsunobu reaction conditions involving a tertiary phosphine and an azo compound. One skilled in the art can find a variety of the tertiary phosphine and azo compounds as well as solvents useful for this transformation in Synthesis, 1981, 1 and Org. Reactions, 1992, 42, 335.

For the process of Step 1, the reaction temperature is generally from about -40 to 250 °C, preferably from -20 to 80 °C. The reaction times are generally from about 0.20 to 24 h, preferably from 0.5 to 12 h. Generally, the pressure is from 1.013 x  $10^2$  to 5.065 x  $10^2$  KPa; preferably ambient pressure.

Generally at least an equimolar amount of the Formula 5 compound is used in respect to the Formula 6 compound, and preferably at least a small molar excess of the Formula 6 compound is used. More particularly, the molar ratio of the Formula 6 compound to the Formula 5 compound is usually in the range of 1.05:1 to 10:1. In most cases, the molar ratio of the Formula 6 compound to the Formula 5 compound is preferably in the range of 1.1:1 to 1.5:1.

Isolation of product of Step 1 can be accomplished by standard workup procedures.

# STEP 2

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Compounds of Formula 1 are then obtained by the reaction of the compounds of Formula 3 prepared in Step 1 and compounds of Formula 2 under the same reaction conditions as already described in Step 2 for Sequence A.

#### PROCESS SEQUENCE C

# STEP 1a

$$X^{2}R^{27}$$

$$X^{1} \longrightarrow X^{2}R^{27}$$

$$X^{2} \longrightarrow X^{2} \longrightarrow X^{2} \longrightarrow X^{2}$$

$$X^{1} \longrightarrow X^{1} \longrightarrow X^{2}$$

$$X^{1} \longrightarrow X^{2}$$

$$X^{2} \longrightarrow X^{2}$$

$$X^{2} \longrightarrow X^{2}$$

$$X^{1} \longrightarrow X^{2}$$

$$X^{2} \longrightarrow X^{2}$$

Step 1a forms the compounds of Formula 1 by contacting compounds of Formula 5 with compounds of Formula 2 in the presence of a suitable base either neat or in a suitable solvent.

For the process of Step 1a, the general and preferred reaction conditions are the same as the ones described above for Step 1 in Process Sequence A.

A solution of compound of Formula 2 can be added to a solution/suspension of compound of Formula 5 and a base in a solvent. Reaction temperature is maintained during and after the addition and until the reaction reaches completion. Isolation of product of Step 1a can be accomplished by standard workup procedures.

STEP 1b

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$$X^{1} \longrightarrow X^{2}R^{27}$$

$$X^{1} \longrightarrow X^{2}$$

$$X^{1} \longrightarrow X^{2}$$

$$X^{2} \longrightarrow X^{2}$$

$$X^{2} \longrightarrow X^{2}$$

$$X^{3} \longrightarrow X^{2}$$

$$X^{3} \longrightarrow X^{2}$$

$$X^{4} \longrightarrow X^{2}$$

$$X^{3} \longrightarrow X^{4}$$

$$X^{4} \longrightarrow X^{2}$$

$$X^{5} \longrightarrow X^{4}$$

$$X^{7} \longrightarrow X^{2}$$

Step 1b forms the compounds of Formula 7 from the reaction of compounds of Formula 5 and compounds of Formula 2 in the presence of a base either neat or in a suitable solvent.

For the process of Step 1b, the general and preferred reaction conditions are the same as the ones described above for Step 1 in Process Sequence A.

The product of Step 1b can be isolated by standard workup procedures.

# 15 STEP 2a

7 + 
$$Q-(CR^6R^7)_q$$
 OH Missunobu 1

Step 2a forms the compounds of Formula 1 from the reaction of compounds of Formula 7 and compounds of Formula 6 under Mitsunobu reaction conditions involving a tertiary phosphine and an azo compound. One skilled in the art can find a variety of the tertiary phosphine and azo compounds as well as solvents useful for this transformation in Synthesis, 1981, 1 and Org. Reactions, 1992, 42, 335.

For the process of Step 2a, the reaction temperature is generally from about -40 to 250 °C, preferably from -20 to 80 °C. The reaction times are generally from about 0.20 to 24 h, preferably from 0.5 to 12 h. Generally, the pressure is from 1.013 x  $10^2$  to 5.065 x  $10^2$  KPa; preferably ambient pressure.

Generally at least an equimolar amount of the Formula 7 compound is used in respect to the Formula 6 compound, and preferably at least a small molar excess of the Formula 6 compound is used. More particularly, the molar ratio of the Formula 6 compound to the Formula 7 compound is usually in the range of 1.05:1 to 10:1. In most cases, the molar ratio

of the Formula 7 compound to the Formula 6 compound is preferably in the range of 1.1:1 to 1.5:1.

Isolation of product of Step 2a can be accomplished by standard workup procedures.

## 5 **STEP 2b**

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7 + Q-
$$(CR^6R^7)_q$$
- $X^4$  Base 1

Step 2b forms compounds of Formula 1 by contacting compounds of Formula 7 with compounds of Formula 4 in the presence of a suitable base either neat or in a suitable solvent.

For the process of Step 2b, the general and preferred reaction conditions are similar to the ones described above for Step 1 in Process Sequence A.

Isolation of product of Step 2b can be accomplished by standard workup procedures.

#### PROCESS SEQUENCE D

Compounds of the Formula 8 can be readily prepared by one skilled in the art by using the reactions and techniques described in Steps 1 and 2. In cases where a substituent of the starting material is not compatible with the reaction conditions described for any of the reaction schemes, the substituent can be converted to a protected form prior to the described reaction scheme and then deprotected after the reaction using commonly accepted protection/deprotection techniques (see Green, T. W. and Wuts, P. G., *Protecting Groups in Organic Transformations*, 2nd Edition, John Wiley and Sons, New York, 1991). Otherwise, alternative approaches known to one skilled in the art are available.

Step 1 forms compounds of Formula 20 from the reaction of compounds of Formula 19 with phosgene or thiophosgene in the presence of a base. For general reaction conditions for this transformation, see: U.S. Patent Number 5,602,251. Compounds of Formula 19 are well known in the literature. See: for example, J. Chem. Soc. Perkin I (1997), 1041.

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STEP 2

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20 Hydroxylamine 
$$Q-(CR^6R^7)_q-N$$
 NHOH  $Q-(CR^6R^7)_q-N$  NHOH  $Q-($ 

(wherein  $X^2$  is O or S and  $X^1$  is O)

Step 2 forms compounds of Formula 8 in the form of a salt by treatment of compounds of Formula 20 with hydroxylamine and a base. The salt is then converted to compound of Formula 8 by treatment with an acid.

The reaction is conducted in a suitable organic solvent such as, but not limited to, tetrahydrofuran, dioxane or toluene at a temperature between – 20 and 100 °C with 10-50 °C being the preferred temperature. Hydroxylamine may be generated from one of its salts by use of a suitable base such as, but not limited to, potassium carbonate, potassium hydroxide or sodium hydroxide. Alternatively, hydroxylamine in water may be used. Judicious use of an appropriate co-solvent such as water or a phase transfer catalyst may be effective in facilitating the reaction. Further amounts of the base (vide supra) can be added to scavenge the HCl formed in the reaction. Alternatively, an excess amount of hydroxylamine can be used to achieve the same purpose.

The intermediate compound of Formula 21 is not usually isolated, but converted directly to compounds of Formula 8 by addition of further quantities of base. It is apparent to one skilled in the art that salts of compounds of Formula 8 generated from this reaction may be used directly in the preparation of compounds of Formula 1 as described in Scheme 1. To facilitate the transformation, it may be desirable to adjust the solvent composition by removal of co-solvents such as water prior to the reaction. Alternatively, compounds of Formula 8 may be isolated from their salts by addition of an appropriate mineral acid such as, but not limited to, HCl before being subjected to the reaction conditions as described in Scheme 1 to produce compounds of Formula 1.

# PROCESS SEQUENCE E

Compounds of the Formula 7 can be readily prepared by one skilled in the art by using the reactions and techniques described in Steps 1 and 2. Since hydroxylamine is unstable upon heating, this sequence allows a safe and efficient route to the compounds of the Formula 7 under mild conditions.

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STEP 1

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Step 1 forms the compounds of Formula 22 by contacting a compound of Formula 2 with hydroxylamine in the presence of a suitable base in a suitable solvent. Hydroxylamine may be generated from one of its salts or hydroxylamine in water may be used.

For Step 1, the reaction temperature is generally from -10 to 150 °C, preferably from 0 to 100 °C. The reaction times are generally from 0.10 to 24 h, preferably from 0.10 to 2 h. Generally, the pressure is in the range of 1.013 x 10<sup>2</sup> to 2.026 x 10<sup>2</sup> KPa; preferably ambient pressure. Suitable solvents include typical organic solvents in which the reactants can be dissolved and the process of Step 1 can proceed without interference. Examples of such solvents include aromatics such as benzene, toluene, xylene, chlorobenzene and dichlorobenzene, ethers such as dioxane and tetrahydrofuran, nitriles such as acetonitrile and propionitrile, ethyl acetate, dichloromethane, dichloroethane, and polar aprotic solvents such as dimethylformamide and dimethylsulfoxide. Judicious use of an appropriate co-solvent such as water or a phase transfer catalyst may be effective in facilitating the reaction.

Suitable bases include organic trialkylamines such as trimethylamine, triethylamine, diisopropylethylamine, tributylamine and the like, dimethylamiline, *N*,*N*-dimethylaminopyridine, *N*-methylmorpholine, 1,8-diazabicyclo[5.4.0]undec-7-ene, 1,4-diazabicyclo[2.2.2]octane and 1,5-diazabicyclo[4.3.0]non-5-ene. Trialkylamines is a particularly useful organic base for this reaction. When an excess quantity of hydroxylamine is employed, the excess hydroxylamine can also serve as a base. Inorganic bases include, but are not limited to, potassium hydroxide, sodium hydroxide, potassium carbonate, sodium carbonate, lithium carbonate and cesium carbonate.

Generally at least an equimolar amount of the Formula 2 compound is used in respect to hydroxylamine, and preferably at least a small molar excess of hydroxylamine is used. More particularly, the molar ratio of the Formula 2 compound to hydroxylamine is usually in the range of 1:1.05 to 1:10. In most cases, the molar ratio of the Formula 2 compound to hydroxylamine is preferably in the range of 1:1.1 to 1:1.5. Generally at least an equivalent of base is used in respect to the Formula 2 compound, and preferably at least a small equivalent excess of the base is used. More particularly, the ratio of the number of equivalents of base to number of moles of the Formula 2 compound is usually in the range of 1.05:1 to 10:1. In most cases, the ratio of the number of equivalents of base to number of

moles of the Formula 2 compound is preferably in the range of 1.1:1 to 1.5:1. The equivalent amount of base may be similar to the molar amount of the Formula 2 compound, but this is not necessary.

Isolation of product of Step 1 can be accomplished by standard workup procedures. In the scenario that the reaction is carried our in an aqueous solution, a filtration can be employed to collect compounds of Formula 22.

## STEP 2

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22 + 
$$CI - C - N = C = X^2$$
 Base 7

10 Compounds of Formula 7 are synthesized by contacting compounds of Formula 22 with chlorocarbonyl isocyanate (X<sup>1</sup> and X<sup>2</sup> are O) or chlorocarbonyl isothiocyanate (X<sup>1</sup> is O and X<sup>2</sup> is S) or chlorothiocarbonyl isocyanate (X<sup>1</sup> is S and X<sup>2</sup> is O) or chlorothiocarbonyl isothiocyanate (X<sup>1</sup> and X<sup>2</sup> are S) in the presence of a base to scavange the HCl byproduct. Similar examples of such reactions using N-alkyl-N-hydroxylamine and chlorocarbonyl isocyanate have been reported in Syn., 1982, 781-2 and in WO 9741097 but there is no example of compound like 22 and chlorocarbonyl isocyanate in the literature.

Compounds of Formula 23 are either commercially available or may be prepared by one skilled in the art using methods known in the art (or slight modification of these methods); for example, see: *Chem. Ber.* 1981, 114, 1746-51, *Chem. Ber.* 1973, 106, 1487-95, and *Chem. Ber.* 1966, 99, 3572-81.

For Step 2, the reaction temperature is generally from -10 to 150 °C, preferably from 0 to 100 °C. The reaction times are generally from 0.10 to 24 h, preferably from 0.10 to 2 h. Generally, the pressure is in the range of 1.013 x 10<sup>2</sup> to 2.026 x 10<sup>2</sup> KPa; preferably ambient pressure. Suitable solvents include typical organic solvents in which the reactants can be dissolved and the process of Step 1 can proceed without interference. Examples of such reactants include aromatics such as benzene, toluene, xylene, chlorobenzene and dichlorobenzene, ethers such as dioxane and tetrahydrofuran, nitriles such as acetonitrile and propionitrile, ethyl acetate, dichloromethane, dichloroethane, and polar aprotic solvents such as dimethylformamide and dimethylsulfoxide.

Suitable bases for Step 2 are similar to the ones described above for Step 1.

Generally at least an equimolar amount of the Formula 22 compound is used in respect to the Formula 23 compound, and preferably at least a small molar excess of the Formula 23 compound is used. More particularly, the molar ratio of the Formula 22

compound to the Formula 23 compound is usually in the range of 1:1.05 to 1:10. In most cases, the molar ratio of the Formula 22 compound to the Formula 23 compound is preferably in the range of 1:1.1 to 1:1.5. Generally at least an equivalent of base is used in respect to the Formula 22 compound, and preferably at least a small equivalent excess of the base is used. More particularly, the ratio of the number of equivalents of base to number of moles of the Formula 22 compound is usually in the range of 1.05:1 to 10:1. In most cases, the ratio of the number of equivalents of base to number of moles of the Formula 22 compound is preferably in the range of 1.1:1 to 1.5:1. The equivalent amount of base may be similar to the molar amount of the Formula 22 compound, but this is not necessary.

Isolation of product of Step 2 can be accomplished by standard workup procedures.

Compounds 7 can be readily converted into alkali salts when treated with potassium carbonate or sodium carbonate in water. The salts may be useful in alkylation reactions.

Compounds of Formula 1 are then obtained by the reaction of compounds of Formula 7 under the same reaction conditions as already described in Step 2a/2b in Sequence C.

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## PROCESS SEQUENCE F

Compounds of the Formula 1 can be readily prepared by one skilled in the art by using the reactions and techniques described in the scheme below.

wherein  $\mathbb{R}^{27}$  is  $-(\mathbb{C}\mathbb{R}^6\mathbb{R}^7)$ -Q

The compounds of Formula 1 are formed by contacting a compound of Formula 7 with an orthoformate of Formula 24 either neat or in the presence of a suitable solvent.

The reaction temperature is generally from -10 to 150 °C, preferably from 0 to 100 °C. The reaction times are generally from 0.10 to 24 h, preferably from 0.10 to 2 h. Generally, the pressure is in the range of 1.013 x 10<sup>2</sup> to 2.026 x 10<sup>2</sup> KPa; preferably ambient pressure. Suitable solvents include typical organic solvents in which the reactants can be dissolved and the process can proceed without interference. Examples of such reactants include aromatics such as benzene, toluene, xylene, chlorobenzene and dichlorobenzene, ethers such as dioxane and tetrahydrofuran, nitriles such as acetonitrile and propionitrile, ethyl acetate, dichloromethane, dichloroethane, and polar aprotic solvents such as dimethylformamide and dimethylsulfoxide.

Generally at least an equimolar amount of the Formula 24 compound is used in respect to the Formula 7 compound, and preferably at least a small molar excess of Formula 24 compound is used. More particularly, the molar ratio of the Formula 7 compound to the Formula 24 compound is usually in the range of 1:1.05 to 1:10. In most cases, the molar ratio of the Formula 7 compound to the Formula 24 compound is preferably in the range of 1:1.1 to 1:1.5.

# PROCESS SEQUENCE G

Compounds of the Formula 1 can be readily prepared by one skilled in the art by using the reactions and techniques described in Steps 1 and 2.

## 10 STEP 1

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$$Q = (CR^{6}R^{7})_{q} = N$$

$$X^{2}$$

$$X^{3}$$

$$X^{1}$$

$$X^{2}$$

$$X^{3}$$

$$X^{1}$$

$$X^{2}$$

$$X^{1}$$

$$X^{2}$$

$$X^{1}$$

$$X^{2}$$

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$$X^{1}$$

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$$X^{4}$$

$$X^{2}$$

$$X^{3}$$

$$X^{3}$$

$$X^{4}$$

$$X^{4}$$

$$X^{4}$$

$$X^{4}$$

$$X^{5}$$

$$X^{5}$$

$$X^{5}$$

$$X^{7}$$

Step 1 forms the compounds of Formula 25 by contacting a compound of Formula 8 with a compound of Formula 26 either neat or in a suitable solvent.

For Step 1, the reaction temperature is generally from -10 to 150 °C, preferably from 0 to 100 °C. The reaction times are generally from 0.10 to 24 h, preferably from 0.10 to 2 h. Generally, the pressure is in the range of 1.013 x 10<sup>2</sup> to 2.026 x 10<sup>2</sup> KPa; preferably ambient pressure. Suitable solvents include typical organic solvents in which the reactants can be dissolved and the process of Step 1 can proceed without interference. Examples of such reactants include aromatics such as benzene, toluene, xylene, chlorobenzene and dichlorobenzene, ethers such as dioxane and tetrahydrofuran, nitriles such as acetonitrile and propionitrile, ethyl acetate, dichloromethane and dichloroethane.

Generally at least an equimolar amount of the Formula 26 compound is used in respect to the Formula 8 compound, and preferably at least a small molar excess of the Formula 26 compound is used. More particularly, the molar ratio of the Formula 8

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compound to the Formula 26 compound is usually in the range of 1:1.05 to 1:10. In most cases, the molar ratio of the Formula 8 compound to the Formula 26 compound is preferably in the range of 1:1.1 to 1:1.5.

In the presence of a catalyst such as hexamethylguanidinium chloride, the reaction of compounds of Formula 8 and compounds of Formula 26 produces compounds of Formula 27. For general and preferred conditions, see *Tet. Lett.* 1987, 5823-5826.

Isolation of product of Step 1 can be accomplished by standard workup procedures. STEP 2

25 + 
$$R^{1}$$

NH

R2

NH

13

Base

Q—( $CR^{6}R^{7})_{q}$ —N

NH

R2

NH

13

Compounds of Formula 1 are synthesized by contacting compounds of either Formula 25 or Formula 27 with amines of Formula 13 in the presence of a suitable base in a suitable solvent.

For Step 2, the general and preferred reaction conditions are the same as the ones described above for Step 1 in Process Sequence A.

One skilled in the art will recognize that, in some cases, after the introduction of a given reagent as it is depicted in any individual scheme, it may be necessary to perform additional routine synthetic steps not described in detail to complete the synthesis of compounds of Formula 1. One skilled in the art will also recognize that it may be necessary

to perform a combination of the steps illustrated in the above schemes in an order other than that implied by the particular sequence presented to prepare the compounds of Formula 1.

One skilled in the art will also recognize that compounds of Formula 1 and the intermediates described herein can be subjected to various electrophilic, nucleophilic, radical, organometallic, oxidation, and reduction reactions to add substituents or modify existing substituents.

Without further elaboration, it is believed that one skilled in the art using the preceding description can utilize the present invention to its fullest extent. The following

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Examples are, therefore, to be construed as merely illustrative, and not limiting of the disclosure in any way whatsoever. Percentages are by weight except for chromatographic solvent mixtures or where otherwise indicated. Parts and percentages for chromatographic solvent mixtures are by volume unless otherwise indicated.  $^{1}H$  NMR spectra are reported in ppm downfield from tetramethylsilane; s = singlet, d = doublet, t = triplet, q = quartet, m = multiplet, dd = doublet of doublets, dt = doublet of triplets, dt = doublet of singlet.

## **EXAMPLE 1**

## Step A: Preparation of N-(2,4-dichlorophenyl)-N'-hydroxyurea

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A solution of 14.2 g (75 mmol) of 2,4-dichlorophenylisocyanate in 50 mL of toluene was added to a mixture of 8.26 g (120 mmol) of hydroxylamine hydrochloride and 4.8 g (120 mmol) of sodium hydroxide in a two-phase solvent mixture consisting of 50 mL of water and 50 mL of toluene. The resulting mixture was stirred at 25 °C for 30 minutes and filtered. The solid thus obtained was washed with water and then dissolved in 200 mL of ethyl acetate. The solution was dried over magnesium sulfate and the solvent was removed under reduced pressure to yield 12.7 g of the title compound of Step A as a white solid melting at 157-158 °C. It was used directly in the next step without further purification.

Step B: Preparation of 4-(2,4-dichlorophenyl)-1,2,4-oxadiazolidine-3,5-dione

A solution of 4.2 g (19 mmol) of the compound of step A in tetrahydrofuran (20 mL) was treated with carbonyldiimidazole (3.2 g, 19 mmol). The mixture was stirred at 25 °C for 16 h. Some precipitated imidazole was filtered off and the filtrate was concentrated under reduced pressure. The residue was partitioned between 1N HCl (20 mL) and ethyl acetate (50 mL). The organic layer was dried over magnesium sulfate and concentrated to an oil which solidified to give 3.8 g of the title compound of Step B as a solid melting at 104-107 °C. It was used directly for the next step without further purification.

#### Step C: Preparation of 4-fluoro-N-propylbenzenamine

A 3L three neck round bottom flask equipped with a nitrogen inlet, a thermometer, an overhead stirrer and a solid addition funnel was charged with 250 mL acetic acid, 50 mL absolute ethanol and 29.5 g (0.27 mol) of 4-fluoroaniline. To this mixture was added acetone (23 mL, 0.31 mol) in one portion followed by the portion-wise addition of sodium acetate trihydrate over 5 min. This vigorously stirred mixture was cooled to 0 °C (dry-ice/acetone) and 4.5 g of sodium borohydride (1.2 mol) was added portion-wise via a solid addition funnel over 50 min while keeping the internal temperature below 10 °C. During this addition, acetic acid (100 mL) and absolute ethanol (50 mL) were added to facilitate stirring. After the addition, the mixture was allowed to warm to room temperature, and then stirred at ambient temperature for 12 h. Sufficient ammonium hydroxide (30% aqueous) was

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added to adjust the pH to ~8 while maintaining the internal temperature below 30 °C using an ice/water bath. The mixture was extracted with ether (4 x 400 mL). The combined organic layers were washed with brine, dried over MgSO<sub>4</sub>, filtered, then concentrated under reduced pressure to give the desired product as a black/brown oil (38 g).

<sup>1</sup>H NMR: (300 MHz, CDCl<sub>3</sub>) δ 6.8-6.9 (t, 2H), 6.5 (m, 2H), 3.5 (m, 1H), 1.2 (d, 6H). Preparation of 4-(fluorophenyl)propylcarbamic chloride Step D:

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A 1L three neck round bottom flask equipped with a nitrogen inlet, a thermometer and two addition funnels was charged with 600 mL of toluene and 36.0 g (0.22 mol) of the compound of Step C. This stirred mixture was cooled to 3 °C, and then 116 mL (0.22 mol) of a 20% solution of phosgene in toluene was added dropwise over 15 min while maintaining the temperature below 10 °C. Ten min after the addition, diisopropyl ethylamine (39 mL, 0.22 mol) was added dropwise over 15 min while maintaining the temperature below 7 °C. The reaction mixture was allowed to warm to room temperature and stirred for 14 hours. The resulting brown solution was flooded with CH<sub>2</sub>Cl<sub>2</sub> (700 mL), and then saturated NaHCO3 solution. The organic layer was separated and washed with saturated NaHCO3 solution (3 x 500 mL), dried over MgSO4, and filtered. The solvent was removed under reduced pressure, then in vacuo, during which time the resulting oil slowly crystallized. This solid was triturated with hexanes to give 36 g (78%) of a gray solid melting at 50-55 °C.

<sup>1</sup>H NMR: (300 MHz, CDCl<sub>3</sub>) δ 7.1-7.2 (m, 4H), 4.68 (m, 1H), 1.1-1.2 (d, 6H).

Preparation of 4-(2,4-dichlorophenyl)-N-(4-fluorophenyl)-N-(1-Step E: methylethyl)-3.5-dioxo-1,2,4-oxadiazolidine-2-carboxamide

A solution of 0.6 g (2.4 mmol) of the compound of Step B in toluene (25 mL) was treated with 0.42 g (1.9 mmol) of the compound of Step D and 0.35 g (2.9 mmol) of 4dimethylaminopyridine. The resulting mixture was heated at 80 °C for 1 hour, and subsequently diluted with 1N hydrochloric acid (20 mL) and ethyl acetate (50 mL). The organic layer was separated and washed with saturated brine solution (30 mL). It was then dried over magnesium sulfate and concentrated under reduced pressure. The residue was subjected to column chromatography on silica gel with 85:15 hexanes-ethyl acetate as eluent. Appropriate fractions were combined and concentrated to give 0.32 g of the title compound of Step E, a compound of this invention, as an oil which solidified on standing to give a solid melting at 57-60 °C.

<sup>1</sup>H NMR (CDCl<sub>3</sub>)  $\delta$  1.22 (m, 6H), 4.7 (m, 1H), 7.04-7.17 (m, 2H), 7.2-7.3 (m, 3H), 7.39 (d, 1H), 7.58 (s, 1H).

**EXAMPLE 2** 

Preparation of N-(2,6-dimethylphenyl)-N'-hydroxylurea Step A:

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A 500 mL side arm flask equipped with a thermometer and an addition funnel with a nitrogen inlet was charged with 100 mL of toluene and 2.00 g (0.10 mol) of 50% hydroxylamine in water. A solution of 4.41 g of 2,6-dimethylphenyl isocyanate (0.03 mol) dissolved in 50 mL of toluene was added dropwise over 15 min. External cooling was used to maintain the internal reaction temperature below 25 °C. Stirring was continued at room temp for 18 h. The solvent was removed under reduced pressure to give a white solid. The residual solvent was further co-evaporated twice with toluene, then oven dried overnight to give the desired product (5.25 g) as a white solid melting at 192-193 °C.

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<sup>1</sup>H NMR: (300 MHz, DMSO-d<sub>6</sub>)  $\delta$  8.85 (d, 1H), 8.58 (s, 1H), 8.14 (s, 1H), 7.00-7.08 (m, 3H), 2.15 (s, 6H).

Step B: Preparation of 4-(2,6-dimethylphenyl)-1,2,4-oxadiazolidine-3,5-dione

A 300 mL flask with side arm equipped with a nitrogen inlet and a thermometer was charged with 25 mL of tetrahydrofuran followed by 5.00 g (0.0277 mol) of 2,6-dimethylphenyl hydroxyurea. To this stirred suspension was added portion-wise 4.41 g (0.0277 mol) of carbonyl diimidazole over 5 min. While stirring at room temperature, the suspension turned into a solution before precipitate started to form slowly. After 18 h, the mixture was quenched with 50 mL of 1N HCl which caused the suspension to turn into a solution. It was partitioned between ethyl acetate (250 mL) and 1N HCl (50 mL). The organic layer was separated and washed with brine, then dried over MgSO<sub>4</sub> and filtered. The solvent was removed under reduced pressure to give the title compound as a red oil (5.20 g) which slowly crystallized upon standing at room temperature to give a solid melting at 90-100 °C.

<sup>1</sup>H NMR: (300 MHz, CDCl<sub>3</sub>)  $\delta$  7.30 (t, 1H), 7.20 (d, 2H), 2.24 (s, 6H).

Step C: Preparation of 4-(2,6-dimethylphenyl)-N-(4-fluorophenyl)-N-(1-methylethyl)-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide

To a 500 mL two neck round bottom flask equipped with a thermometer and a reflux condenser with nitrogen inlet was charged sequentially 30 mL of toluene, 1.50 g (0.0072 mol) of the compound of Step B, 1.60 g (0.0074 mol) of the compound of Step D in Example 1, and lastly 0.90 g of 4-dimethylaminopyridine (0.072 mol). The reaction became homogeneous upon heating to 85 °C. Heating was continued at 85 °C for 2 h during which time a precipitate was formed. The reaction mixture was then cooled to room temperature, filtered and the solid was washed with toluene (2 x 25 mL). The toluene was removed under reduced pressure to give a tan solid. The product was washed with cool isopropyl alcohol (2 x 10 mL) to give 2.16 g of the title compound, a compound of the invention, as a white solid melting at 134-136 °C.

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 $^{1}$ H NMR: (300 MHz, DMSO-d<sub>6</sub>) δ 7.20-7.47 (m, 7H), 4.52-4.65 (m, 1H), 2.03 (s, 6H).

#### **EXAMPLE 3**

## Step A: Preparation of 4-(2-propenyl)-1,2,4-oxadiazolidine-3,5-dione

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To a 500 mL round-bottom flask were added acetone (300 mL), allyl isocyanate (12.0 g, 0.145 mol), N-hydroxyurethane (6.1 g, 0.058 mol) and triethylamine (11.7 g, 0.116 mol) respectively at room temperature under nitrogen with efficient stirring. The reaction mixture was allowed to stir at room temperature for 6 d. The solvent was removed under reduced pressure. The residue was suspended in 100 mL of 1N HCl, extracted with ethyl acetate (3 x 150 mL). The organic solution was washed with water, brine, dried over MgSO<sub>4</sub> and concentrated to a clear yellow oil. The crude product was dried under high vacuum for 4 h to give the title compound as an oil (13.1 g) which was used in the next step without further purification.

<sup>1</sup>H NMR: (300 MHz, CDCl<sub>3</sub>) δ: 5.87 (m, 1H), 5.27 (m, 2H), 4.17 (m, 1H), 3.82 (bs, 1H).

Step B: Preparation of N-(4-fluorophenyl)-N-(1-methylethyl)-3,5-dioxo-4-(2-propenyl)-1,2,4-oxadiazolidine-2-carboxamide

A dry 100 mL round-bottom flask was changed with dry tetrahydrofuran (20 mL), the compound of step A (1.0 g, 7.0 mmol), the compound of Step D in Example 1 (1.5 g, 7.0 mmol), triethylamine (1.0 g, 10.0 mmol) and 4-dimethylaminopyridine (0.2 g, 1.6 mmol) respectively at room temperature under nitrogen atmosphere with stirring. The reaction mixture was heated at reflux for 1.5 h during which time a white solid precipitated out. The reaction mixture was cooled to room temperature and diluted with 150 mL of ethyl acetate. The organic layer was washed with 1N HCl, water, brine, and dried over MgSO<sub>4</sub>. Upon concentration, a yellow syrup (1.8 g) was obtained. The crude product was purified by flash chromatography on silica gel with ethyl acetate/hexanes 1:9 as eluent to provide 1.22 g of the title compound, a compound of the invention, as a white solid melting at 65-66 °C.

<sup>1</sup>H NMR: (300 MHz, CDCl<sub>3</sub>) δ 7.22 (m, 2H), 7.11 (m, 2H), 5.78 (m, 1H), 5.26 (m, 2H), 4.42 (m, 1H), 4.07 (d, 2H), 1.20 (d, 6H).

#### **EXAMPLE 4**

#### Step A: Preparation of phenylhydroxycarbamate

To a stirred solution of NaHCO<sub>3</sub> (60.5 g) in water (200 mL) in a 2 L beaker was added portion-wise over 15 min 27.5 g of hydroxylamine hydrochloride. Once the bubbling subsided, dichloromethane (200 mL) was added to the reaction mixture and cooled to 5 °C. Phenyl chloroformate (50 g) was then added at a steady rate to the reaction mixture. The reaction mixture was allowed to warm to room temperature and stirred for 1 h. Ethyl acetate

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(100 mL) was employed to bring the reaction mixture to a transparent solution. The organic layer was separated, washed with brine (200 mL) and dried over MgSO<sub>4</sub>. The organic solvent was removed under reduced pressure to give the title compound (38.20 g) as a white solid melting at 104-107 °C.

Step B: Preparation of N-hydroxy-2,2-dimethylhydrazinecarboxamide

To a solution of 37.3 g of the compound of Step A in tetrahydrofuran (200 mL) at room temperature under nitrogen was added 22 mL of 1,1-dimethylhydrazine. The reaction mixture was then heated at reflux overnight. The solvent was removed under reduced pressure to afford an oil which was purified by column chromatography with 9:1 ethyl acetate-methanol as eluent to give a semi-solid. Triturating of the residue with dichloromethane gave the title compound (7.25 g) as a white solid melting at 115-118 °C.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 8.5 (brs, 1H), 8.27 (brs, 1H), 7.4 (brs, 1H), 2.4 (s, 6H).

Step C: Preparation of 4-(dimethylamino)-1,2,4-oxadiazolinedine-3,5-dione

The compound of Step B (4.25 g, 29 mmol) was suspended in tetrahydrofuran

(25 mL) at 5 °C under nitrogen. To the mixture was added portion-wise 1,1'-carbonyldiimidazole (5.78 g, 29 mmol) while maintaining the reaction temperature under 10 °C. The reaction was partitioned between ethyl acetate (125 mL) and 1N HCl (60 mL). The organic layer was separated. The aqueous layer was further extracted with ethyl acetate (2 x 100 mL). The combined organic layers were dried over MgSO<sub>4</sub> and concentrated under reduced pressure to afford the title compound as an oil (2.9 g).

<sup>1</sup>H NMR (CDCl<sub>3</sub>)  $\delta$  5.1 (br s, 1H), 2.9 (s, 6H).

Step D: Preparation of 4-(dimethylamino)-N-(4-fluorophenyl)-N-(1-methylethyl)-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide

The compound of Step D, Example 1 (1.48 g, 6.9 mmol), 4-dimethylaminopyridine (0.84 g, 6.9 mmol), and the compound of Step C (1.00 g, 6.9 mmol) were combined in toluene (25 mL) at room temperature. The reaction mixture was heated to 80 °C for 3 h. Acetonitrile (20 mL) and silica gel (5 g) were added and the solvent was removed under reduced pressure. After column chromatography with 8:2 hexanes-ethyl acetate as eluent, the title compound, a compound of the invention, was isolated as a white solid (1.23 g) melting at 69-71 °C.

<sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 7.2 (m, 2H), 7.1 (m, 2H), 4.6 (m, 1H), 2.9 (s, 6H), 1.2 (d, 6H). <u>EXAMPLE 5</u>

Step A: Preparation of 4-[(2-methylphenyl)methyl]-3-(phenylmethoxy)-1,2,4-oxadiazol-5(4H)-one

A 50 mL round bottom flask equipped with a thermometer, a stirrer, and a nitrogen inlet was charged with 3-(phenylmethoxy)-1,2,4-oxadiazol-5(4H)-one (Synthesis, (1991),

265 0.5 g, 2.6 mmol), potassium carbonate (0.5 g, 3.6 mmol), tetrabutylammonium bromide (0.022 g, 0.1 mmol), 2-methylbenzyl bromide (0.6 g, 3.2 mmol) and acetonitrile (10 mL). The reaction mixture was stirred at room temperature for 18 h. The reaction mixture was poured into water (25 mL) and extracted with dichloromethane (3 x 20 mL), dried over MgSO<sub>4</sub> and concentrated under reduced pressure to provide a solid. The solid was further purified by flash chromatography on silica gel using 9:1 hexane-ethyl acetate to provide 0.3 g (40%) of the title compound as a white solid melting at 77-78 °C.

 $^{1}$ H NMR (CDCl<sub>3</sub>): δ 7.39 (m, 3H), 7.27 (m, 3H), 7.17 (m, 3H), 5.26 (s, 2H), 4.69 (s, 2H), 2.31 (s, 3H).

10 <u>Step B</u>: <u>Preparation of N-(4-chlorophenyl)-N-(1-methylethyl)-4-[(2-methylphenyl)methyl]-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide</u>

A 50 mL round bottom flask equipped with a stirrer, a thermometer, and a nitrogen inlet was charged with the compound of Step A (0.6 g, 2.05 mmol), (4-chlorophenyl)(1-methylethyl)carbamic chloride (0.5 g, 2.155 mmol), N, N'-dimethylaminopyridine (0.26 g, 2.13 mmol) and tetrahydrofuran (20 mL). The mixture was heated to reflux for 3 hours, then cooled to room temperature and poured into 1N HCl (50 mL). The mixture was extracted with diethyl ether (3 x 25 mL). The organic layer was dried over MgSO<sub>4</sub> and concentrated under reduced pressure to provide a thick oil. The oil was purified by flash chromatography on silica gel using 9:1 hexane-ethyl acetate to provide 0.22 g (28%) of the title compound as a white solid melting at 90-91 °C.

 $^{1}$ H NMR (CDCl<sub>3</sub>): δ 7.5-7.0 (m, 8H), 4.63 (s, 2H), 4.6 (m, 1H), 2.36 (s, 3H), 1.18 (d, 6H).

#### **EXAMPLE 6**

Step A: Preparation of 4-methyl-3-(phenylmethoxy)-1,2,4-oxadiazol-5(4H)-one

A 50 mL round bottom flask equipped with a thermometer, a stirrer and a nitrogen inlet was charged with 3-(phenylmethoxy)-1,2,4-oxadiazol-5(4H)-one (1 g, 5.2 mmol), iodomethane (0.916 g, 6.5 mmol), 1,8-diazabicyclo[5.4.0]undec-7-ene (1 g, 6.5 mmol) and acetonitrile (10 mL). The mixture was stirred at room temperature for 18 h. The entire reaction mixture was flash chromatographed (silica gel, 8:2 hexane-ethyl acetate) to provide 1 g (37.5%) of the title compound as a white solid melting at 80-83 °C.

<sup>1</sup>H NMR (CDCl<sub>3</sub>): δ 7.43 (m, 5H), 5.32 (s, 2H), 3.09 (s, 3H).

Step B: Preparation of N-(4-fluorophenyl)-4-methyl-N-(1-methylethyl)-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide

A 50 mL round bottom flask equipped with a thermometer, a stirrer and a nitrogen inlet was charged with 4-methyl-3-(phenylmethoxy)-1,2,4-oxadiazol-5(4H)-one (0.55 g, 2.66 mmol), (4-fluorophenyl)(1-methylethyl)carbamic chloride (0.581 g, 2.7 mmol),

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N, N'-dimethylaminopyridine (0.329 g, 2.7 mmol) and acetonitrile (10 mL). The reaction mixture was heated to reflux 2 h, and allowed to cool to room temperature. The entire mixture was flash chromatographed (silica gel, 9:1, then 8:2 hexane-ethyl acetate) to provide 0.6 g (76%) of the title compound as a white solid melting at 135-136 °C.

<sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 7.29 (m, 2H), 7.11 (m, 2H), 4.64 (m, 1H), 3.05 (s, 3H), 1.18 (d, 6H).

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## **EXAMPLE 7**

Step A: Preparation of N-(4-chlorophenyl)-4-methyl-N-(1-methylethyl)-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide

A 50 mL round bottom flask, equipped with a thermometer, a stirrer and nitrogen inlet was charged with 3-(phenylmethoxy)-1,2,4-oxadiazol-5(4H)-one (0.5 g, 2.6 mmol), 1,8-diazabicyclo[5.4.0]unded-7-ene (0.5 g, 3.28 mmol), iodomethane (0.5 g, 3.54 mmol) and acetonitrile (5 mL). The mixture was stirred at room temperature for 18 h. To the mixture was added (4-chlorophenyl)(1-methylethyl)carbamic chloride (0.7 g, 3 mmol) and N,

N'-dimethylamino-pyridine (0.367 g, 3 mmol), and the resulting mixture was heated to reflux for 2 h. It was then cooled to room temperature and flash chromatographed (silica gel, 9:1 hexane-ethyl acetate) to provide 150 mg (18 %) of the title compound as a white solid melting at 121-123 °C.

<sup>1</sup>H NMR (CDCl<sub>3</sub>): δ 7.36 (m, 2H), 7.2 (m, 2H), 4.6 (m, 1H), 3.05 (s, 3H), 1.21 (d, 6H).

## **EXAMPLE 8**

Step A: Preparation of 4-(2-methylpropyl)-3-(phenylmethoxy)-1,2,4-oxadiazol-5(4H)-one

A 50 mL round bottom flask equipped with a thermometer, a stirrer, addition funnel and nitrogen inlet was charged with 3-(phenylmethoxy)-1,2,4-oxadiazol-5(4H)-one (1 g, 5.2 mmol), 2-methyl propanol (0.45 g, 6 mmol), triphenylphosphine (1.57 g, 6 mmol) and tetrahydrofuran (5 mL). The mixture was cooled to 0 °C and a solution of diethyl azodicarboxylate (1.04 g, 6 mmol) in tetrahydrofuran (2 mL) was added dropwise over a period of 10 min. The reaction mixture was allowed to warm to room temperature, and stirred for 18 h. The entire mixture was flash chromatographed (silica gel, 8:2 hexane-ethyl acetate) to provide 1.1 g (84 %) of the title compound as a white solid melting at 53-60 °C.

<sup>1</sup>H NMR (CDCl<sub>3</sub>):  $\delta$  7.42 (m, 5H), 5.31 (s, 2H), 3.34 (d, 2H), 2.01 (m, 1H), 0.897 (d, 6H).

Step B: Preparation of N-(4-fluorophenyl)-N-(1-methylethyl)-4-(2-methylpropyl)-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide

A 50 mL round bottom flask equipped with a stirrer, a thermometer and a nitrogen inlet was charged with 4-(2-methylpropyl)-3-(phenylmethoxy)-1,2,4-oxadiazol-5(4H)-one (0.25 g, 1 mmol), (4-fluorophenyl)(1-methylethyl)carbamic chloride (0.24 g, 1.1 mmol), N, N'-dimethylaminopyridine (0.14 g, 1.1 mmol) and acetonitrile (10 mL). The mixture was heated to reflux for 2 h and allowed to cool to room temperature. The entire mixture was flashed chromatographed (silica gel, 9:1 hexane-ethyl acetate) to provide 0.18 (53 %) of the title compound as a white solid melting at 80-81 °C.

<sup>1</sup>H NMR (CDCl<sub>3</sub>): δ 7.24 (m, 2H), 7.11 (m, 2H), 4.65 (m, 1H), 3.29 (d, 2H), 2.0 (m, 1H), 1.2 (d, 6H), 0.89 (d, 6H).

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#### **EXAMPLE 9**

Preparation of N-(4-fluorophenyl)-N-(1-methylethyl)-3,5-dioxo-4-Step A: (phenylmethyl)-1,2,4-oxadiazolidine-2-carboxamide

A 50 mL round bottom flask equipped with a thermometer, a stirrer and a nitrogen inlet was charged with 3-(phenylmethoxy)-1,2,4-oxadiazol-5(4H)-one (0.5 g, 2.6 mmol), (4-fluorophenyl)(1-methylethyl)carbamic chloride (0.58 g, 27 mmol), N, N'-dimethylaminopyridine (0.33 g, 2.7 mmol) and acetonitrile (5 mL). The mixture was heated to reflux for 3 h and allowed to cool to room temperature. The mixture was flash chromatographed (silica gel, 9:1 hexane-ethyl acetate) to provide 0.24 g (25 %) of the title compound as a white solid melting at 95-96 °C.

<sup>1</sup>H NMR (CDCl<sub>3</sub>):  $\delta$  7.22 (s, 5H), 7.2 (m, 2H), 7.06 (m, 2H), 4.6 (m, 1H), 4.59 (s, 2H), 1.17 (d, 6H).

#### EXAMPLE 10

Step A: Preparation of N-(4-fluorophenyl)-N-(1-methylethyl)-3,5-dioxo-1,2,4oxadiazolidine-2-carboxamide and N-(4-fluorophenyl)-4-methyl-N-(1methylethyl)-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide

A 50 mL round bottom flask equipped with a thermometer, a stirrer and nitrogen inlet was charged with 3-methoxy-1,2,4-oxadiazol-5(4H)-one (1.16 g, 0.01 m), (4fluorophenyl)(1-methylethyl)carbamic chloride (2.4 g, 0.011 m),

N, N'-dimethylaminopyridine (1.35 g, 0.011 m) and acetonitrile (20 mL). The mixture was heated to reflux for 18 h. The mixture was allowed to cool to room temperature, poured into 1N HCl (20 mL) and extracted with ethyl acetate (3 x 25 mL). The organic phase was dried over MgSO<sub>4</sub> and concentrated under reduced pressure to provide a thick oil. The oil was flash chromatographed (silica gel, 7:3 dichloromethane-ethyl acetate) to provide two fractions. Fraction A contained 0.42 g (15%) of N-(4-fluorophenyl)-4-methyl-N-(1methylethyl)-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide as a white solid melting at

135-136 °C. <sup>1</sup>H NMR (CDCl<sub>3</sub>): δ 7.26 (m, 2H), 7.11 (m, 2H), 4.6 (m, 1H), 3.05 (s, 3H),

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1.17 (m, 6H). Fraction B contained 1.1 g (40 %) of N-(4-fluorophenyl)-N-(1-methylethyl)-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide as a solid melting at 55-60 °C.

<sup>1</sup>H NMR (CDCl<sub>3</sub>): δ 7.24 (m, 2H), 7.19 (m, 2H), 4.6 (m, 1H), 1.2 (d, 6H). IR (CH<sub>2</sub>Cl<sub>2</sub>); 3200, 3300, 1776, 1715 cm<sup>-1</sup>. MS (M + 1): 281, 257.

5 <u>Step B:</u> <u>Preparation of N-(4-fluorophenyl)-N-(1-methylethyl)-4-(2-methylpropyl)-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide</u>

A 50 mL round bottom flask equipped with a thermometer, a stirrer, an addition funnel, and a nitrogen inlet was charged with N-(4-fluorophenyl)-N-(1-methylethyl)-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide (5.5 g, 0.019 m), 2-methyl-1-propanol (3 g, 0.04 mol), triphenylphosphine (6.3 g, 0.021 mol) and tetrahydrofuran (60 mL). The reaction solution was cooled to 15 °C and diethyl azodicarboxylate (4.2 g, 0.024 mol) in tetrahydrofuran (10 mL) was added dropwise over a period of 10 min. The reaction mixture was stirred at room temperature for 18 h. The solvent was removed under reduced pressure and the residue was flash chromatographed (silica gel, 9:1 hexane-ethyl acetate) to provide the title compound as a white solid (5.6 g, 88%). The solid has a melting range of 80-81 °C, and was identical to the material prepared in Example 8, Step B.

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## **EXAMPLE 11**

Preparation of methyl (chlorocarbonyl)(2,6-dimethylphenyl)carbamate Step A: A mixture of toluene (150 mL), biphenyl (0.2 g) and sodium methoxide in methanol (23.76 g, 0.11 mol, 25% by weight) was heated at reflux, and the methanol-toluene azeotrope was removed. The mixture was allowed to cool to 80 °C, and toluene (80 mL) was added. To the resulting mixture was added in five portions methyl (2,6dimethylphenyl)carbamate (17.9 g, 0.1 mol). The methanol formed in the reaction was removed as the above azeotrope. When most of the methanol had been removed, ethylene glycol dimethyl ether (8 mL) was added, and the mixture was distilled until the head temperature reached 110 °C. The mixture was allowed to cool to 25 °C, and ethylene glycol dimethyl ether (3 mL) was added. The mixture was then added to phosgene in toluene (22.5 g, 0.56 mol, 25% by weight). When the addition was complete, excess phosgene was removed by distillation. The mixture was allowed to cool to 25 °C, and then washed with sodium bicarbonate solution (40 mL, saturated). The organic layer was dried and the volatiles removed by evaporation to give 17.21 g (64.5%) of the title compound as a solid. An analytical sample was prepared by column chromatography on silica gel using 1:3 ethyl acetate-hexanes as the eluent.

M.P. 84.5–86 °C; IR (Nujol): 1814, 1437, 1252, 1229, 1209, 1182, 1013, 982, 845 cm<sup>-1</sup>; <sup>1</sup>H NMR (CDCl<sub>3</sub>): δ 7.28-7.12 (m, 3H), 3.82 (s, 3H), 2.23 (s, 6H).

## Step B: Preparation of 4-(2,6-dimethylphenyl)-2-methyl-1,2,4-oxadiazolidine-3,5-dione

A portion of the compound from Step A (3.72 g, 15.4 mmol) in dioxane (15 mL) was added to a mixture of aqueous hydroxylamine (2.03 g, 30.7 mmol, 50% by weight) in dioxane (15 mL). When the addition was complete, a solution of potassium hydroxide (2.22 g, 33.6 mmol, 85 %) in water (5 mL) was added dropwise to the mixture so that the temperature did not rise beyond 30 °C. When the addition was complete, the solvent was removed until the volume was reduced to about 5 mL. The mixture was poured into water (100 mL), and the aqueous mixture was extracted with ethyl acetate (2 x 50 mL). The aqueous mixture was acidified with HCl and further extracted with ethyl acetate (2 x 50 mL). The combined organic extracts from the second extraction were dried and evaporated to give the title compound as a solid (2.34 g, 73.7%). The solid has a melting point range of 92-93.5 °C after crystallization from ether/hexanes, and was identical to material prepared in Example 2, Step B.

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#### **EXAMPLE 12**

## Step A: Preparation of N'-hydroxy-N-(1-methylethyl)-N-phenylurea

A solution of 50% aqueous hydroxylamine (16.8 g, 0.25 mol) was added dropwise to a solution of (1-methylethyl)phenylcarbamic chloride (20.0 g, 0.1 mol) in 200 mL of THF in an ice bath so that the reaction temperature was kept below 30 °C. Precipitate began to form halfway through the addition. The resulting slurry was stirred overnight. The mixture was filtered, and the solids collected were first washed with water and then with hexane/ether. After air-drying, 14.56 g of the title compound was obtained. Its structure was confirmed by an analysis of the NMR spectra. The filtrate was stripped down to afford a residue which was washed sequentially with 1N HCl, water and hexane/ether to yield a second crop of the title compound (5.38 g) melting at 165-166 °C. The combined yield was 100%.

 $^{1}$ H NMR (300 MHz, DMSO-d<sub>6</sub>): δ 8.10 (br s, 1H), 7.74 (s, 1H), 7.38 (m, 3H), 7.12 (m, 2H), 4.55 (m, 1H), 0.97 (d, 6H)

## Step B: Preparation of N-(1-methylethyl)-3,5-dioxo-N-phenyl-1,2,4-oxadiazolidine-2-carboxamide

A solution of chlorocarbonyl isocyanate (5.0 g, 0.047 mol) was added dropwise to a slurry of the title compound of Step A (9.2 g, 0.047 mol) and triethylamine (5.3 g, 0.052 mol) in 200 mL of THF while maintaining the reaction temperature below 30 °C using an ice bath. After 2 hours, TLC showed the presence of starting material. Another 0.5 g of chlorocarbonyl isocyanate was added, and the reaction mixture was stirred for another hour. At that point, TLC showed still the presence of starting material. The reaction mixture was filtered to remove solids, and the filtrate was stripped to dryness and then extracted with 1N

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HCl and ether. Upon evaporation of volatiles, a gummy product was obtained which was taken into methylene chloride and potassium carbonate solution. Solids were collected by a filtration, washed with methylene chloride and air dried. The solids (5.3 g) were found to be the potassium salt of the title compound. The basic aqueous filtrate was acidified with concentrated HCl and extracted with methylene chloride to afford 4 g of the title compound, an intermediate useful for the preparation of the compounds of the present invention, melting at 116-7 °C. From the methylene chloride used to wash the solids, 2.6 g of the title compound of Step A was recovered. This represented a 71.7% conversion. The combined yield was therefore 96% based on the 71.7% conversion.

<sup>1</sup>H NMR (300 MHz, DMSO-d<sub>6</sub>): δ 9.60 (brs, 1H), 7.37 (m, 3H), 7.23 (m, 2H), 4.60 (m, 1H), 1.19 (d, 6H).

#### **EXAMPLE 13**

# Step A: Preparation of N-(4-fluorophenyl)-N-(1-methylethyl)-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide

A 1 L three neck round bottom flask equipped with nitrogen inlet, thermometer and water condenser was charged with dioxanes (400 mL), 1,2,4-oxadiazole-3,5-dione (30 g 0.29 moles, prepared according to Srivastava, P. and Robins, R., J. Med. Chem. 1981, 24, 1172-1177), 4-dimethylaminopyridine (36 g, 0.29 mole), and N-isopropyl-4-flourophenylcarbamoyl chloride (63 g, 0.29 moles) at room temperature. The yellow mixture was heated at reflux for 4 hours. When no starting material was detected by thin layer chromatography, heat was tuned off and mixture was cooled to room temperature. The solvent was removed under reduced pressure and the resulting solids were suspended in ethyl acetate. The mixture was washed with 1N HCl, and the aqueous layer was extracted twice with ethyl acetate. The combined organic solutions were washed with brine, dried over anhydrous magnesium sulfate, and concentrated under reduced pressure. The product was crystallized from chlorobutane and hexanes, and filtered to give 47 g (57%) of the title compound as a white solid melting at 94-95 °C.

<sup>1</sup>H NMR: (300 MHz, CDCl<sub>3</sub>) δ 7.24 (m, 2H), 7.09 (m, 2H), 4.63 (m, 1H), 1.18 (d, 6H).

Step B: Preparation of N-(4-fluorophenyl)-N,4-bis(1-methylethyl)-3,5-dioxo-1,2,4oxadiazolidine-2-carboxamide

A solution of the compound of Step A (1.0 g, 3.6 mmol) in 20 mL of triisopropylorthoformate was heated at 145 °C for 2 h and then allowed to stir at ambient temperature overnight. The volatiles were removed under reduced pressure, and the residue recrystallized from methanol to give 0.99 g (86%) of the title compound, a compound of this invention, as a solid melting at 78-80 °C.

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 $^{1}$ H NMR (300 MHz, CDCl<sub>3</sub>): δ 7.26(m, 2H), 7.11(m, 2H), 4.62(m, 1H), 4.18(m, 1H), 1.40(d, 6H), 1.20(d, 6H).

## **EXAMPLE 14**

Step A: Preparation of 2,2'-carbonylbis[4-(1-methylethyl)-1,2,4-oxadiazolidine-3,5-dione]

To a solution of 4-(1-methylethyl)-1,2,4-oxadiazolidine-3,5-dione (20 g, 139 mmol) and hexamethylguanidinium chloride (0.25 g, 1.39 mmol) in 150 mL of toluene was added phosgene (6.88 g, 69 mmol, 20% by weight in toluene). The resulting mixture was heated at reflux for 1.5 h with the use of a dry ice/acetone condenser. The volatiles were removed under reduced pressure, and the residue recrystallized from 150 mL of *n*-BuCl to give 14 g (64%) of the title compound as a white solid melting at 150 °C.

<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>): δ 1.52 (d, 6H), 4.36 (m, 1H).

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Step B: Preparation of N,4-bis(1-methylethyl)-3,5-dioxo-N-phenyl-1,2,4-oxadiazolidine-2-carboxamide

A solution of the compound of Step A (0.5 g, 1.6 mmol), N-phenyl-N-(2-methylethyl)amine (0.215 g, 1.6 mmol) and 4- dimethylaminopyridine (0.19 g, 1.6 mmol) in 10 mL of acetonitrile was heated at reflux under a nitrogen atmosphere. The resulting mixture was allowed to cool to ambient temperature and poured into 25 mL of water. It was then extracted with ethylacetate (4 x 25 mL). Condensation gave an oil which was purified by flash chromatography using 1:3 EtOAc-Hexanes as the eluant to give the title compound, a compound of this invention, as a white solid melting at 83-84 °C.

 $^{1}$ H NMR (300 MHz, CDCl<sub>3</sub>): δ 1.20 (d, 6H), 1.38 (d, 6H), 4.16 (m, 1H), 4.63 (m, 1H), 7.26 (m, 2H), 7.39 (m, 3H).

## **EXAMPLE 15**

25 <u>Step A:</u> <u>N-(4-fluorophenyl)-4-(methoxymethyl)-N-(1-methylethyl)-3,5-dioxo-1,2,4-oxadiazolidine-2-carboxamide</u>

To a solution of 308 uL of bromomethyl methyl ether (1 eq, 90% tech.) in 8 mL dry acetonitrile was added 995 mg of the title compound of Step A in Example 13. To this mixture was then addede 508 uL (1 eq) of 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU). The resulting solution was heated at reflux under a nitrogen atomsphere for 3 h. The reaction mixture was allowed to cool to room temperature and the volatiles removed under reduced pressure. The residue was dissolved in 1 mL of dichloromethane and loaded onto a 70 mL solid phase extraction (SPE) cartridge containing 10 g of silica gel (230-400 mesh). The title compound (260 mg), a compound of this invention, was obtained after elution using a 20% ethyl acetate/hexane solution.

 $^1H$  NMR (300 MHz, CDCl<sub>3</sub>):  $\delta$  7.22(m, 2H),7.09 (m, 2H), 4.89 (s, 2H), 4.65 (m, 1H), 3.39 (s, 3H), 1.2 (d, 6H).

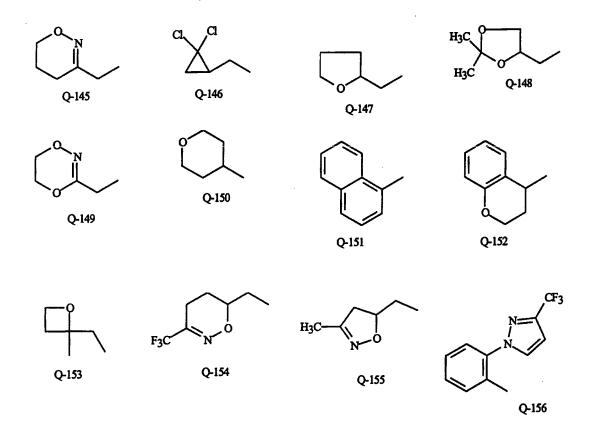
By the procedures described herein together with methods known in the art, the following compounds of Tables 1 to 3 can be prepared. The following notations have been used in Tables.

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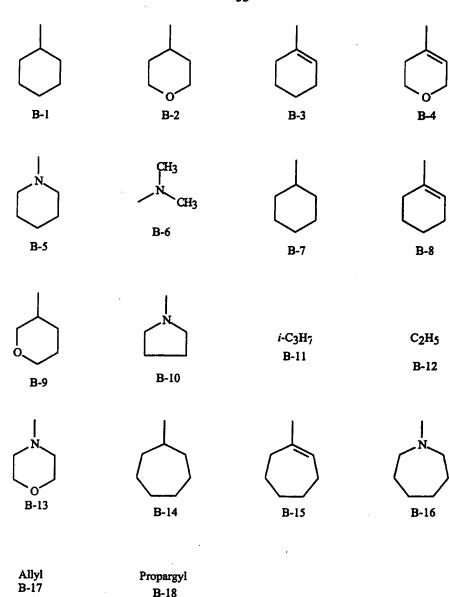
Q-1	Ph	Q-36	2-SCH <sub>3</sub> -Ph
Q-2	2-Cl-Ph	Q-37	2-Me-6-( <i>i</i> -Pr)-Ph
Q-3	3-Cl-Ph	Q-38	2-Cl-4-Me-Ph
Q-4	4-Cl-Ph	Q-39	2-CN-Ph
Q-5	2-Br-Ph	Q-40	4-Cl-2-Me-Ph
Q-6	2-F-Ph	Q-41	2-Cl-6-Me-Ph
Q-76	2,4-di-F-Ph	Q-42	2-Me-5-Cl-Ph
Q-8	2,6-di-F-Ph	Q-43	2-Cl-5-Me-Ph
Q-9	2,3-di-Cl-Ph	Q-44	2-Cl-3-Me-Ph
Q-10	2,4-di-Cl-Ph	Q-45	2-NO <sub>2</sub> -Ph
Q-11	2,6-di-Cl-Ph	Q-46	1-tetrahydronaphthyl
Q-12	2,6-di-Et-Ph	Q-47	4-(2,3-dihydro-1H-indene)
Q-13	2,6-di-OMe	Q-48	7-(2,3-diH-2,2-di-Me-7-benzofuran)
Q-14	2-Cl-4-F-Ph	Q-49	2-Vinyl-Ph
Q-15	2-Cl-6-F-Ph	Q-50	2-Ph-Ph
Q-16	2-Me-Ph	Q-51	1-(2-Me-tetrahydronaphthyl)
Q-17	3-Me-Ph	Q-52	3-(2-Cl-Pyridine)
Q-18	4-Me-Ph	Q-53	4,6-di-Me-Pyrimidin-5-yl
Q-19	2-Et-Ph	Q-54	4,6-di-OMe-Pyrimidin-5-yl
Q-20	2-Pr-Ph	Q-55	PhCH <sub>2</sub> -
Q-21	2,5-di-Me-Ph	Q-56	PhC(CH <sub>3</sub> )-
Q-22	4-OMe-Ph	Q-57	(2-Cl-Ph)CH <sub>2</sub> -
Q-23	2-Cl-6-Me-Ph	Q-58	(2,6-di-Cl-Ph)CH <sub>2</sub> -
Q-24	2,6-di-Me-Ph	Q-59	(2,3-di-Cl-Ph)CH <sub>2</sub> -
Q-25	2,4-di-Me-Ph	Q-60	(2-Me-Ph)CH <sub>2</sub> -
Q-26	2,5-di-Me-Ph	Q-61	(2-OCH <sub>3</sub> -Ph)CH <sub>2</sub> -
Q-27_	2,3-di-Me-Ph	Q-62	(2,4-di-Cl-Ph)CH <sub>2</sub> -
Q-28	2-Me-6-Et-Ph	Q-63	(2-CF <sub>3</sub> -Ph)CH <sub>2</sub> -
Q-29	2-CF <sub>3</sub> -Ph	Q-64	(2-OCF <sub>3</sub> -Ph)CH <sub>2</sub> -

Q-30	4-CF <sub>3</sub> -Ph	Q-65	(2-CN-Ph)CH <sub>2</sub> -
Q-31	2-OCF <sub>2</sub> H-Ph	Q-66	(2-Cl-Ph)CH(CH <sub>3</sub> )-
Q-32	2-OCF <sub>3</sub> -Ph	Q-67	(2-Me-Ph)CH(CH <sub>3</sub> )-
Q-33	2,4,6-tri-Me-Ph	Q-68	PhCH <sub>2</sub> CH <sub>2</sub> -
Q-34	4-Cl-2,6-di-Me-Ph	Q-69	(2-Cl-Ph)CH <sub>2</sub> CH <sub>2</sub> -
Q-35	2-OPh-Ph	Q-70	(2-Me-Ph)CH <sub>2</sub> CH <sub>2</sub> -

	<del></del>		<del></del>
Q-95	п-Рт	Q-121	c-Butyl
Q-96	n-Bu	Q-122	EtC(Me)2-
Q-97	i-Bu	Q-123	CF <sub>3</sub> CH <sub>2</sub> -
Q-98	n-hex	Q-124	4-(1-Butenyl)
Q-99	c-Pr	Q-125	3-Me-Propargyl
Q-100	Allyl	Q-126	1-(3-Me-1-Propenyl)
Q-101	Propargyl	Q-127	NCCH <sub>2</sub> -
Q-102	3-(2-Cl-Propenyl)	Q-128	(i-C <sub>3</sub> H <sub>7</sub> )O-
Q-103	Cyclohexyl	Q-129	(Allyl)O-
Q-104	1-cyclohexenyl	Q-130	(Me) <sub>2</sub> N-
Q-105	2-Me-1-cyclohexenyl	Q-131	1-piperidino
Q-106	MeOCH <sub>2</sub> CH <sub>2</sub> -	Q-132	MeO <sub>2</sub> S-
Q-107	MeOCH <sub>2</sub> -	Q-133	MeSCH <sub>2</sub> CH <sub>2</sub> -
Q-108	3-Cl-Pr	Q-134	Me <sub>2</sub> NS(O) <sub>2</sub> -
Q-109	4-(1,1-di-F-butenyl)	Q-135	O <sub>2</sub> NCH <sub>2</sub> -
Q-110	3-(1,1-di-Cl-propenyl)	Q-136	MeC(≔O)-
Q-111	i-Pr	Q-137	(i-Pr)OC(=O)-
Q-112	2-OMe-Ph	Q-138	EtOC(=O)-
Q-113	2-Me-6-OMe-Ph	Q-139	Me2NC(=0)-
Q-114	2-Cl-Et	Q-140	EtOC(=O)CH <sub>2</sub> -
Q-115	3-(2-Me-Propenyl)	Q-141	(MeO) <sub>2</sub> P(=O)CH <sub>2</sub> -
Q-116	t-Bu	Q-142	Me <sub>2</sub> NC(=0)CH <sub>2</sub> -
Q-117	MeC(=NOMe)CH <sub>2</sub> -	Q-143	2-(Tetrahydropyranyl)
Q-118	2-Me-(c-Hex)	Q-144	(Oxirane)-CH <sub>2</sub> -
Q-119	Et		
Q-120	c-Pentyl		



Q-157	Me2NCH2CH2-	Q-167	2-(SF <sub>5</sub> )-Ph
Q-158	Me <sub>2</sub> NCH <sub>2</sub> -	Q-168	1-(Morpholino)
Q-159	Me <sub>3</sub> SiCH <sub>2</sub> -	Q-169	EtCH(Me)-
Q-160	Me <sub>2</sub> NC(=S)-	Q-170	Me <sub>3</sub> CCH <sub>2</sub>
Q-161	3-oxetanyl	Q-171	(Et) <sub>2</sub> N-
Q-162	NCCH <sub>2</sub> CH <sub>2</sub>	Q-172	MeS-
Q-163	MeOC(=O)CH(CH <sub>3</sub> )-	Q-173	MeSC(=S)-
Q-164	MeOC(=O)CH(i-Pr)-	Q-174	4-(2-Butynyl)
Q-165	MeNH	Q-175	F <sub>3</sub> CS-
Q-166	2-(NMe <sub>2</sub> )-Ph		



B-18

 $R^2$  is *i*-C<sub>3</sub>H<sub>7</sub>,  $R^{13}$  is 4-F

. R4 18 <i>i-</i> C3H	7, R <sup>13</sup> 18 4-1	·						
Q	Q	Q	Q	Q	Q	Q	Q	Q
Q-1	Q-2	Q-3	Q-4	Q-5	Q-6	Q-7	Q-8	Q-9
Q-10	Q-11	Q-12	Q-13	Q-14	Q-15	Q-16	Q-17	Q-18
Q-19	Q-20	Q-21	Q-22	Q-23	Q-24	Q-25	Q-26	Q-27
Q-28	Q-29	Q-30	Q-31	Q-32	Q-33	Q-34	Q-35	Q-36
Q-37	Q-38	Q-39	Q-40	Q-41	Q-42	Q-43	Q-44	Q-45
Q-46	Q-47	Q-48	Q-49	Q-50	Q-51	Q-52	Q-53	Q-54
Q-55	Q-56	Q-57	Q-58	Q-59	Q-60	Q-61	Q-62	Q-63
Q-64	Q-65	Q-66	Q-67	Q-68	Q-69	Q-70	Q-71	Q-72
Q-73	Q-74	Q-75	Q-76	Q-77	Q-78	Q-79	Q-80	Q-81
Q-82	Q-83	Q-84	Q-85	Q-86	Q-87	Q-88	Q-89	Q-90
Q-91	Q-92 ·	Q-93	Q-94	Q-95	Q-96	Q-97	Q-98	Q-99
Q-100	Q-101	Q-102	Q-103	Q-104	Q-105	Q-106	Q-107	Q-108
Q-109	Q-110	Q-111	Q-112	Q-113	Q-114	Q-115	Q-116	Q-117
Q-118	Q-119	Q-120	Q-121	Q-122	Q-123	Q-124	Q-125	Q-126
Q-127	Q-128	Q-129	Q-130	Q-131	Q-132	Q-133	Q-134	Q-135
Q-136	Q-137	Q-138	Q-139	Q-140	Q-141	Q-142	Q-143	Q-144
Q-145	Q-146	Q-147	Q-148	Q-149	Q-150	Q-151	Q-152	Q-153
Q-154	Q-155	Q-156	Q-157	Q-158	Q-159	Q-160	Q-161	Q-162
Q-163	Q-164	Q-165	Q-166	Q-167	Q-168	Q-169	Q-170	Q-171
Q-172	Q-173	Q-174	Q-175					

 $R^2$  is *i*-C<sub>3</sub>H<sub>7</sub>,  $R^{13}$  is 2,4-di-F

Q	Q	Q	Q	Q	Q	Q	Q	Q
Q-1	Q-2	Q-3	Q-4	Q-5	Q-6	Q-7	Q-8	Q-9
Q-10	Q-11	Q-12	Q-13	Q-14	Q-15	Q-16	Q-17	Q-18
Q-19	Q-20	Q-21	Q-22	Q-23	Q-24	Q-25	Q-26	Q-27
Q-28	Q-29	Q-30	Q-31	Q-32	Q-33	Q-34	Q-35	Q-36
Q-37	Q-38	Q-39	Q-40	Q-41	Q-42	Q-43	Q-44	Q-45
Q-46	Q-47	Q-48	Q-49	Q-50	Q-51	Q-52	Q-53	Q-54
Q-55	Q-56	Q-57	Q-58	Q-59	Q-60	Q-61	Q-62	Q-63
Q-64	Q-65	Q-66	Q-67	Q-68	Q-69	Q-70	Q-71	Q-72
Q-73	Q-74	Q-75	Q-76	Q-77	Q-78	Q-79	Q-80	Q-81
Q-82	Q-83	Q-84	Q-85	Q-86	Q-87	Q-88	Q-89	Q-90

Q-91	Q-92	Q-93	Q-94	Q-95	Q-96	Q-97	Q-98	Q-99
Q-100	Q-101	Q-102	Q-103	Q-104	Q-105	Q-106	Q-107	Q-108
Q-109	Q-110	Q-111	Q-112	Q-113	Q-114	Q-115	Q-116	Q-117
Q-118	Q-119	Q-120	Q-121	Q-122	Q-123	Q-124	Q-125	Q-126
Q-127	Q-128	Q-129	Q-130	Q-131	Q-132	Q-133	Q-134	Q-135
Q-136	Q-137	Q-138	Q-139	Q-140	Q-141	Q-142	Q-143	Q-144
Q-145	Q-146	Q-147	Q-148	Q-149	Q-150	Q-151	Q-152	Q-153
Q-154	Q-155	Q-156	Q-157	Q-158	Q-159	Q-160	Q-161	Q-162
Q-163	Q-164	Q-165	Q-166	Q-167	Q-168	Q-169	Q-170	Q-171
Q-172	Q-173	Q-174	Q-175					

 $R^2$  is *i*- $C_3H_7$ ,  $R^{13}$  is 4-C1

Q	Q	Q	Q	Q	Q	Q	Q	Q
Q-1	Q-2	Q-3	Q-4	Q-5	Q-6	Q-7	Q-8	Q-9
Q-10	Q-11	Q-12	Q-13	Q-14	Q-15	Q-16	Q-17	Q-18
Q-19	Q-20	Q-21	Q-22	Q-23	Q-24	Q-25	Q-26	Q-27
Q-28	Q-29	Q-30	Q-31	Q-32	Q-33	Q-34	Q-35	Q-36
Q-37	Q-38	Q-39	Q-40	Q-41	Q-42	Q-43	Q-44	Q-45
Q-46	Q-47	Q-48	Q-49	Q-50	Q-51	Q-52	Q-53	Q-54
Q-55	Q-56	Q-57	Q-58	Q-59	Q-60	Q-61	Q-62	Q-63
Q-64	Q-65	Q-66	Q-67	Q-68	Q-69	Q-70	Q-71	Q-72
Q-73	Q-74	Q-75	Q-76	Q-77	Q-78	Q-79	Q-80	Q-81
Q-82	Q-83	Q-84	Q-85	Q-86	Q-87	Q-88	Q-89	Q-90
Q-91	Q-92	Q-93	Q-94	Q-95	Q-96	Q-97	Q-98	Q-99
Q-100	Q-101	Q-102	Q-103	Q-104	Q-105	Q-106	Q-107	Q-108
Q-109	Q-110	Q-111	Q-112	Q-113	Q-114	Q-115	Q-116	Q-117
Q-118	Q-119	Q-120	Q-121	Q-122	Q-123	Q-124	Q-125	Q-126
Q-127	Q-128	Q-129	Q-130	Q-131	Q-132	Q-133	Q-134	Q-135
Q-136	Q-137	Q-138	Q-139	Q-140	Q-141	Q-142	Q-143	Q-144
Q-145	Q-146	Q-147	Q-148	Q-149	Q-150	Q-151	Q-152	Q-153
Q-154	Q-155	Q-156	Q-157	Q-158	Q-159	Q-160	Q-161	Q-162
Q-163	Q-164	Q-165	Q-166	Q-167	Q-168	Q-169	Q-170	Q-171
Q-172	Q-173	Q-174	Q-175	-	-		-	

1 10 1-0-31177, 10 11 10 11	R <sup>2</sup> is	i-C <sub>3</sub> H <sub>7</sub> ,	R13	is H	i
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10 10 1 031	17, K 15 IS H							
Q	Q	Q	Q	Q	Q	Q	Q	Q
Q-1	Q-2	Q-3	Q-4	Q-5	Q-6	Q-7	Q-8	Q-9
Q-10	Q-11	Q-12	Q-13	Q-14	Q-15	Q-16	Q-17	Q-18
Q-19	Q-20	Q-21	Q-22	Q-23	Q-24	Q-25	Q-26	Q-27
Q-28	Q-29	Q-30	Q-31	Q-32	Q-33	Q-34	Q-35	Q-36
Q-37	Q-38	Q-39	Q-40	Q-41	Q-42	Q-43	Q-44	Q-45
Q-46	Q-47	Q-48	Q-49	Q-50	Q-51	Q-52	Q-53	Q-54
Q-55	Q-56	Q-57	Q-58	Q-59	Q-60	Q-61	Q-62	Q-63
Q-64	Q-65	Q-66	Q-67	Q-68	Q-69	Q-70	Q-71	Q-72
Q-73	Q-74	Q-75	Q-76	Q-77	Q-78	Q-79	Q-80	Q-81
Q-82	Q-83	Q-84	Q-85	Q-86	Q-87	Q-88	Q-89	Q-90
Q-91	Q-92	Q-93	Q-94	Q-95	Q-96	Q-97	Q-98	Q-99
Q-100	Q-101	Q-102	Q-103	Q-104	Q-105	Q-106	Q-107	Q-108
Q-109	Q-110	Q-111	Q-112	Q-113	Q-114	Q-115	Q-116	Q-117
Q-118	Q-119	Q-120	Q-121	Q-122	Q-123	Q-124	Q-125	Q-126
Q-127	Q-128	Q-129	Q-130	Q-131	Q-132	Q-133	Q-134	Q-135
Q-136	Q-137	Q-138	Q-139	Q-140	Q-141	Q-142	Q-143	Q-144
Q-145	Q-146	Q-147	Q-148	Q-149	Q-150	Q-151	Q-152	Q-153
Q-154	Q-155	Q-156	Q-157	Q-158	Q-159	Q-160	Q-161	Q-162
Q-163	Q-164	Q-165	Q-166	Q-167	Q-168	Q-169	Q-170	Q-171
Q-172	Q-173	Q-174	Q-175					

Q	R <sup>2</sup>	R <sup>13</sup>	Q	R <sup>2</sup>	R <sup>13</sup>	Q	R <sup>2</sup>	R13
Q-2	CH <sub>3</sub>	4-F	Q-2	CH <sub>3</sub>	2,4-di-F	Q-2	CH <sub>3</sub>	4-C1
Q-16	CH <sub>3</sub>	4-F	Q-16	CH <sub>3</sub>	2,4-di-F	Q-16	CH <sub>3</sub>	4-C1
Q-24	CH <sub>3</sub>	4-F	Q-24	CH <sub>3</sub>	2,4-di-F	Q-24	CH <sub>3</sub>	4-C1
Q-29	СН3	4-F	Q-29	CH <sub>3</sub>	2,4-di-F	Q-29	СН3	4-C1
Q-57	CH <sub>3</sub>	4-F	Q-57	CH <sub>3</sub>	2,4-di-F	Q-57	CH <sub>3</sub>	4-CI
Q-71	CH <sub>3</sub>	4-F	Q-71	CH <sub>3</sub>	2,4-di-F	Q-71	CH <sub>3</sub>	4-C1
Q-100	CH <sub>3</sub>	4-F	Q-100	CH <sub>3</sub>	2,4-di-F	Q-100	СН3	4-C1
Q-119	CH <sub>3</sub>	4-F	Q-119	СН3	2,4-di-F	Q-119	CH <sub>3</sub>	4-C1
Q-120	СН3	4-F	Q-120	CH <sub>3</sub>	2,4-di-F	Q-120	CH <sub>3</sub>	4-Cl
Q-126	СН3	4-F	Q-126	СН3	2,4-di-F	Q-126	CH <sub>3</sub>	4-Cl
Q-130	CH <sub>3</sub>	4-F	Q-130	СН3	2,4-di-F	Q-130	CH <sub>3</sub>	4-C1

Q-144	CH <sub>3</sub>	4-F	Q-144	CH <sub>3</sub>	2,4-di-F	Q-144	CH <sub>3</sub>	4-C1
Q-162	CH <sub>3</sub>	4-F	Q-162	CH <sub>3</sub>	2,4-di-F	Q-162	CH <sub>3</sub>	4-C1
Q-169	СН3	4-F	Q-169	CH <sub>3</sub>	2,4-di-F	Q-169	CH <sub>3</sub>	4-CI
Q-2	C <sub>2</sub> H <sub>5</sub>	4-F	Q-2	C <sub>2</sub> H <sub>5</sub>	2,4-di-F	Q-2	C <sub>2</sub> H <sub>5</sub>	4-C1
Q-16	C <sub>2</sub> H <sub>5</sub>	4-F	Q-16	C <sub>2</sub> H <sub>5</sub>	2,4-di-F	Q-16	C <sub>2</sub> H <sub>5</sub>	4-C1
Q-24	C <sub>2</sub> H <sub>5</sub>	4-F	Q-24	C <sub>2</sub> H <sub>5</sub>	2,4-di-F	Q-24	C <sub>2</sub> H <sub>5</sub>	4-C1
Q-29	C <sub>2</sub> H <sub>5</sub>	4-F	Q-29	C <sub>2</sub> H <sub>5</sub>	2,4-di-F	Q-29	C <sub>2</sub> H <sub>5</sub>	4-Cl
Q-57	C <sub>2</sub> H <sub>5</sub>	4-F	Q-57	C <sub>2</sub> H <sub>5</sub>	2,4-di-F	Q-57	C <sub>2</sub> H <sub>5</sub>	4-C1
Q-71	C <sub>2</sub> H <sub>5</sub>	4-F	Q-71	C <sub>2</sub> H <sub>5</sub>	2,4-di-F	Q-71	C <sub>2</sub> H <sub>5</sub>	4-Cl
Q-100	C <sub>2</sub> H <sub>5</sub>	4-F	Q-100	C <sub>2</sub> H <sub>5</sub>	2,4-di-F	Q-100	C <sub>2</sub> H <sub>5</sub>	4-Cl
Q-119	C <sub>2</sub> H <sub>5</sub>	4-F	Q-119	C <sub>2</sub> H <sub>5</sub>	2,4-di-F	Q-119	C <sub>2</sub> H <sub>5</sub>	4-Cl
Q-120	C <sub>2</sub> H <sub>5</sub>	4-F	Q-120	C <sub>2</sub> H <sub>5</sub>	2,4-di-F	Q-120	C <sub>2</sub> H <sub>5</sub>	4-C1
Q-126	C <sub>2</sub> H <sub>5</sub>	4-F	Q-126	C <sub>2</sub> H <sub>5</sub>	2,4-di-F	Q-126	C <sub>2</sub> H <sub>5</sub>	4-C1
Q-130	C <sub>2</sub> H <sub>5</sub>	4-F	Q-130	C <sub>2</sub> H <sub>5</sub>	2,4-di-F	Q-130	C <sub>2</sub> H <sub>5</sub>	4-C1
Q-144	C <sub>2</sub> H <sub>5</sub>	4-F	Q-144	C <sub>2</sub> H <sub>5</sub>	2,4-di-F	Q-144	C <sub>2</sub> H <sub>5</sub>	4-C1
Q-162	C <sub>2</sub> H <sub>5</sub>	4-F	Q-162	C <sub>2</sub> H <sub>5</sub>	2,4-di-F	Q-162	C <sub>2</sub> H <sub>5</sub>	4-C1
Q-169	C <sub>2</sub> H <sub>5</sub>	4-F	Q-169	C <sub>2</sub> H <sub>5</sub>	2,4-di-F	Q-169	C <sub>2</sub> H <sub>5</sub>	4-C1
Q-2	i-C <sub>4</sub> H <sub>9</sub>	4-F	Q-2	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-F	Q-2	i-C <sub>4</sub> H <sub>9</sub>	4-C1
Q-16	i-C <sub>4</sub> H <sub>9</sub>	4-F	Q-16	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-F	Q-16	i-C <sub>4</sub> H <sub>9</sub>	4-Ci
Q-24	i-C <sub>4</sub> H <sub>9</sub>	4-F	Q-24	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-F	Q-24	i-C <sub>4</sub> H <sub>9</sub>	4-C1
Q-29	i-C <sub>4</sub> H <sub>9</sub>	4-F	Q-29	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-F	Q-29	i-C <sub>4</sub> H <sub>9</sub>	4-C1
Q-57	i-C <sub>4</sub> H <sub>9</sub>	4-F	Q-57	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-F	Q-57	i-C <sub>4</sub> H <sub>9</sub>	4-C1
Q-71	i-C <sub>4</sub> H <sub>9</sub>	4-F	Q-71	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-F	Q-71	i-C <sub>4</sub> H <sub>9</sub>	4-C1
Q-100	i-C <sub>4</sub> H <sub>9</sub>	4-F	Q-100	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-F	Q-100	i-C4H9	4-C1
Q-119	i-C <sub>4</sub> H <sub>9</sub>	4-F	Q-119	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-F	Q-119	i-C <sub>4</sub> H <sub>9</sub>	4-Cl
Q-120	i-C <sub>4</sub> H <sub>9</sub>	4-F	Q-120	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-F	Q-120	i-C <sub>4</sub> H <sub>9</sub>	4-C1
Q-126	<i>i-</i> C <sub>4</sub> H <sub>9</sub>	4-F	Q-126	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-F	Q-126	i-C4H9	4-C1
Q-130	i-C <sub>4</sub> H <sub>9</sub>	4-F	Q-130	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-F	Q-130	i-C <sub>4</sub> H <sub>9</sub>	4-C1
Q-144	i-C <sub>4</sub> H <sub>9</sub>	4-F	Q-144	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-F	Q-144	i-C <sub>4</sub> H <sub>9</sub>	4-C1
Q-162	i-C <sub>4</sub> H <sub>9</sub>	4-F	Q-162	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-F	Q-162	i-C <sub>4</sub> H <sub>9</sub>	4-Cl
Q-169	i-C <sub>4</sub> H <sub>9</sub>	4-F	Q-169	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-F	Q-169	i-C <sub>4</sub> H <sub>9</sub>	4-Cl
Q-2	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-2	n-C <sub>3</sub> H <sub>7</sub>	2,4-di-F	Q-2	n-C <sub>3</sub> H <sub>7</sub>	4-C1
Q-16	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-16	n-C <sub>3</sub> H <sub>7</sub>	2,4-di-F	Q-16	n-C <sub>3</sub> H <sub>7</sub>	4-C1
Q-24	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-24	n-C <sub>3</sub> H <sub>7</sub>	2,4-di-F	Q-24	n-C <sub>3</sub> H <sub>7</sub>	4-Cl

Q-29	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-29	n-C <sub>3</sub> H <sub>7</sub>	2,4-di-F	Q-29	n-C <sub>3</sub> H <sub>7</sub>	4-C1
Q-57	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-57	n-C <sub>3</sub> H <sub>7</sub>	2,4-di-F	Q-57	n-C <sub>3</sub> H <sub>7</sub>	4-C1
Q-71	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-71	n-C <sub>3</sub> H <sub>7</sub>	2,4-di-F	Q-71	n-C <sub>3</sub> H <sub>7</sub>	4-C1
Q-100	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-100	n-C <sub>3</sub> H <sub>7</sub>	2,4-di-F	Q-100	n-C3H7	4-C1
Q-119	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-119	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-119	n-C <sub>3</sub> H <sub>7</sub>	4-F
Q-120	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-120	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-120	n-C <sub>3</sub> H <sub>7</sub>	4-F
Q-126	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-126	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-126	n-C3H7	4-F
Q-130	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-130	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-130	n-C <sub>3</sub> H <sub>7</sub>	4-F
Q-144	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-144	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-144	n-C3H7	4-F
Q-162	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-162	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-162	n-C3H7	4-F
Q-169	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-169	n-C <sub>3</sub> H <sub>7</sub>	4-F	Q-169	n-C <sub>3</sub> H <sub>7</sub>	4-F
Q-2	Cyclopropyl	4-F	Q-2	Cyclopropyl	2,4-di-F	Q-2	Cyclopropyl	4-C1
Q-16	Cyclopropyl	4-F	Q-16	Cyclopropyl	2,4-di-F	Q-16	Cyclopropyl	4-C1
Q-24	Cyclopropyl	4-F	Q-24	Cyclopropyl	2,4-di-F	Q-24	Сусюргоруі	4-C1
Q-29	Cyclopropyl	4-F	Q-29	Cyclopropyl	2,4-di-F	Q-29	Cyclopropyl	4-C1
Q-57	Cyclopropyl	4-F	Q-57	Cyclopropyl	2,4-di-F	Q-57	Cyclopropyl	4-C1
Q-71	Cyclopropyl	4-F	Q-71	Cyclopropyl	2,4-di-F	Q-71	Cyclopropyl	4-C1
Q-100	Cyclopropyl	4-F	Q-100	Cyclopropyl	2,4-di-F	Q-100	Cyclopropyl	4-Cl
Q-119	Cyclopropyl	4-F	Q-119	Cyclopropyl	2,4-di-F	Q-119	Cyclopropyl	4-Cl
Q-120	Cyclopropyl	4-F	Q-120	Cyclopropyl	2,4-di-F	Q-120	Cyclopropyl	4-C1
Q-126	Cyclopropyl	4-F	Q-126	Cyclopropyl	2,4-di-F	Q-126	Cyclopropyl	4-C1
Q-130	Cyclopropyl	4-F	Q-130	Cyclopropyl	2,4-di-F	Q-130	Cyclopropyl	4-C1
Q-144	Cyclopropyl	4-F	Q-144	Cyclopropyl	2,4-di-F	Q-144	Cyclopropyl	4-CI
Q-162	Cyclopropyl	4-F	Q-162	Cyclopropyl	2,4-di-F	Q-162	Cyclopropyl	4-Cl
Q-169	Cyclopropyl	4-F	Q-169	Cyclopropyl	2,4-di-F	Q-169	Cyclopropyl	4-CI

Q	R <sup>2</sup>	R <sup>13</sup>	Q	R <sup>2</sup>	R <sup>13</sup>	Q	R <sup>2</sup>	R <sup>13</sup>
Q-2	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>3</sub>	Q-2	i-C <sub>3</sub> H <sub>7</sub>	4-COOCH3	Q-2	i-C <sub>3</sub> H <sub>7</sub>	3,5-di-F
Q-16	i-C <sub>3</sub> H <sub>7</sub>	4-OCF3	Q-16	i-C <sub>3</sub> H <sub>7</sub>	4-COOCH3	Q-16	i-C <sub>3</sub> H <sub>7</sub>	3,5-di-F
Q-24	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>3</sub>	Q-24	i-C <sub>3</sub> H <sub>7</sub>	4-COOCH3	Q-24	i-C <sub>3</sub> H <sub>7</sub>	3,5-di-F
Q-29	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>3</sub>	Q-29	i-C <sub>3</sub> H <sub>7</sub>	4-COOCH3	Q-29	i-C <sub>3</sub> H <sub>7</sub>	3,5-di-F
Q-57	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>3</sub>	Q-57	i-C <sub>3</sub> H <sub>7</sub>	4-COOCH3	Q-57	i-C <sub>3</sub> H <sub>7</sub>	3,5-di-F
Q-71	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>3</sub>	Q-71	i-C <sub>3</sub> H <sub>7</sub>	4-COOCH3	Q-71	i-C <sub>3</sub> H <sub>7</sub>	3,5-di-F
Q-100	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>3</sub>	Q-100	i-C <sub>3</sub> H <sub>7</sub>	4-COOCH <sub>3</sub>	Q-100	i-C <sub>3</sub> H <sub>7</sub>	3,5-di-F

Q-119	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>3</sub>	Q-119	i-C <sub>3</sub> H <sub>7</sub>	4-COOCH	Q-119	i-C <sub>3</sub> H <sub>7</sub>	3,5-di-F
Q-120	i-C <sub>3</sub> H <sub>7</sub>	4-OCF3	Q-120	i-C <sub>3</sub> H <sub>7</sub>	4-COOCH:	Q-120	i-C <sub>3</sub> H <sub>7</sub>	3,5-di-F
Q-126	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>3</sub>	Q-126	i-C <sub>3</sub> H <sub>7</sub>	4-COOCH	Q-126	i-C <sub>3</sub> H <sub>7</sub>	3,5-di-F
Q-130	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>3</sub>	Q-130	i-C <sub>3</sub> H <sub>7</sub>	4-COOCH <sub>3</sub>	Q-130	i-C <sub>3</sub> H <sub>7</sub>	3,5-di-F
Q-144	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>3</sub>	Q-144	i-C <sub>3</sub> H <sub>7</sub>	4-COOCH <sub>3</sub>	Q-144	i-C <sub>3</sub> H <sub>7</sub>	3,5-di-F
Q-162	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>3</sub>	Q-162	i-C <sub>3</sub> H <sub>7</sub>	4-COOCH <sub>3</sub>	Q-162	i-C <sub>3</sub> H <sub>7</sub>	3,5-di-F
Q-169	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>3</sub>	Q-169	i-C <sub>3</sub> H <sub>7</sub>	4-COOCH3	Q-169	i-C <sub>3</sub> H <sub>7</sub>	3,5-di-F
Q-2	i-C <sub>3</sub> H <sub>7</sub>	4-CF <sub>3</sub>	Q-2	i-C <sub>3</sub> H <sub>7</sub>	4-CH <sub>3</sub>	Q-2	i-C <sub>3</sub> H <sub>7</sub>	2,4,6-tri-F
Q-16	i-C <sub>3</sub> H <sub>7</sub>	4-CF <sub>3</sub>	Q-16	i-C <sub>3</sub> H <sub>7</sub>	4-CH <sub>3</sub>	Q-16	i-C <sub>3</sub> H <sub>7</sub>	2,4,6-tri-F
Q-24	i-C <sub>3</sub> H <sub>7</sub>	4-CF <sub>3</sub>	Q-24	i-C <sub>3</sub> H <sub>7</sub>	4-CH <sub>3</sub>	Q-24	i-C <sub>3</sub> H <sub>7</sub>	2,4,6-tri-F
Q-29	i-C <sub>3</sub> H <sub>7</sub>	4-CF <sub>3</sub>	Q-29	i-C <sub>3</sub> H <sub>7</sub>	4-CH <sub>3</sub>	Q-29	i-C <sub>3</sub> H <sub>7</sub>	2,4,6-tri-F
Q-57	i-C <sub>3</sub> H <sub>7</sub>	4-CF <sub>3</sub>	Q-57	i-C <sub>3</sub> H <sub>7</sub>	4-CH <sub>3</sub>	Q-57	i-C <sub>3</sub> H <sub>7</sub>	2,4,6-tri-F
Q-71	i-C <sub>3</sub> H <sub>7</sub>	4-CF <sub>3</sub>	Q-71	i-C <sub>3</sub> H <sub>7</sub>	4-CH <sub>3</sub>	Q-71	i-C <sub>3</sub> H <sub>7</sub>	2,4,6-tri-F
Q-100	i-C <sub>3</sub> H <sub>7</sub>	4-CF <sub>3</sub>	Q-100	i-C <sub>3</sub> H <sub>7</sub>	4-CH <sub>3</sub>	Q-100	i-C <sub>3</sub> H <sub>7</sub>	2,4,6-tri-F
Q-119	i-C <sub>3</sub> H <sub>7</sub>	4-CF <sub>3</sub>	Q-119	i-C <sub>3</sub> H <sub>7</sub>	4-CH <sub>3</sub>	Q-119	i-C <sub>3</sub> H <sub>7</sub>	2,4,6-tri-F
Q-120	i-C <sub>3</sub> H <sub>7</sub>	4-CF <sub>3</sub>	Q-120	i-C <sub>3</sub> H <sub>7</sub>	4-CH <sub>3</sub>	Q-120	i-C <sub>3</sub> H <sub>7</sub>	2,4,6-tri-F
Q-126	i-C <sub>3</sub> H <sub>7</sub>	4-CF <sub>3</sub>	Q-126	i-C <sub>3</sub> H <sub>7</sub>	4-CH <sub>3</sub>	Q-126	i-C <sub>3</sub> H <sub>7</sub>	2,4,6-tri-F
Q-130	i-C <sub>3</sub> H <sub>7</sub>	4-CF <sub>3</sub>	Q-130	<i>i</i> -C <sub>3</sub> H <sub>7</sub>	4-CH <sub>3</sub>	Q-130	i-C <sub>3</sub> H <sub>7</sub>	2,4,6-tri-F
Q-144	i-C <sub>3</sub> H <sub>7</sub>	4-CF <sub>3</sub>	Q-144	i-C <sub>3</sub> H <sub>7</sub>	4-CH <sub>3</sub>	Q-144	i-C <sub>3</sub> H <sub>7</sub>	2,4,6-tri-F
Q-162	i-C <sub>3</sub> H <sub>7</sub>	4-CF <sub>3</sub>	Q-162	<i>i</i> -C <sub>3</sub> H <sub>7</sub>	4-CH <sub>3</sub>	Q-162	i-C <sub>3</sub> H <sub>7</sub>	2,4,6-tri-F
Q-169	i-C <sub>3</sub> H <sub>7</sub>	4-CF <sub>3</sub>	Q-169	i-C <sub>3</sub> H <sub>7</sub>	4-CH <sub>3</sub>	Q-169	i-C <sub>3</sub> H <sub>7</sub>	2,4,6-tri-F
Q-2	i-C <sub>3</sub> H <sub>7</sub>	4-OCH <sub>3</sub>	Q-2	i-C <sub>3</sub> H <sub>7</sub>	2,4-di-Cl	Q-2	i-C <sub>3</sub> H <sub>7</sub>	2,5-di-F
Q-16	i-C <sub>3</sub> H <sub>7</sub>	4-OCH <sub>3</sub>	Q-16	i-C <sub>3</sub> H <sub>7</sub>	2,4-di-Cl	Q-16	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	2,5-di-F
Q-24	i-C <sub>3</sub> H <sub>7</sub>	4-OCH <sub>3</sub>	Q-24	i-C <sub>3</sub> H <sub>7</sub>	2,4-di-Cl	Q-24	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	2,5-di-F
Q-29	i-C <sub>3</sub> H <sub>7</sub>	4-0CH <sub>3</sub>	Q-29	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-Cl	Q-29	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	2,5-di-F
Q-57	i-C <sub>3</sub> H <sub>7</sub>	4-OCH <sub>3</sub>	Q-57	i-C3H7	2,4-di-Cl	Q-57	i-C <sub>3</sub> H <sub>7</sub>	2,5-di-F
Q-71	i-C3H7	4-OCH <sub>3</sub>	Q-71	i-C <sub>3</sub> H <sub>7</sub>	2,4-di-C1	Q-71	<i>i</i> -C <sub>3</sub> H <sub>7</sub>	2,5-di-F
Q-100	i-C <sub>3</sub> H <sub>7</sub>	4-0CH <sub>3</sub>	Q-100	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	2,4-di-Cl	Q-100	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	2,5-di-F
Q-119	i-C <sub>3</sub> H <sub>7</sub>	4-OCH <sub>3</sub>	Q-119	i-C <sub>3</sub> H <sub>7</sub>	2,4-di-Cl	Q-119	i-C <sub>3</sub> H <sub>7</sub>	2,5-di-F
Q-120	i-C <sub>3</sub> H <sub>7</sub>	4-OCH <sub>3</sub>	Q-120	i-C <sub>3</sub> H <sub>7</sub>	2,4-di-Cl	Q-120	i-C <sub>3</sub> H <sub>7</sub>	2,5-di-F
Q-126	i-C <sub>3</sub> H <sub>7</sub>	4-OCH <sub>3</sub>	Q-126	i-C <sub>3</sub> H <sub>7</sub>	2,4-di-Cl	Q-126	i-C <sub>3</sub> H <sub>7</sub>	2,5-di-F
Q-130	i-C <sub>3</sub> H <sub>7</sub>	4-OCH <sub>3</sub>	Q-130	i-C <sub>4</sub> H <sub>9</sub>	2,4-di-Cl	Q-130	i-C <sub>3</sub> H <sub>7</sub>	2,5-di-F
Q-144	i-C <sub>3</sub> H <sub>7</sub>	4-OCH <sub>3</sub>	Q-144	i-C <sub>3</sub> H <sub>7</sub>	2,4-di-Cl	Q-144	i-C <sub>3</sub> H <sub>7</sub>	2,5-di-F
Q-162	i-C <sub>3</sub> H <sub>7</sub>	4-OCH <sub>3</sub>	Q-162	i-C <sub>3</sub> H <sub>7</sub>	2,4-di-Cl	Q-162	i-C <sub>3</sub> H <sub>7</sub>	2,5-di-F

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Q-169	i-C <sub>3</sub> H <sub>7</sub>	4-0CH <sub>3</sub>	Q-169	i-C <sub>3</sub> H <sub>7</sub>	2,4-di-Cl	Q-169	i-C3H7	2,5-di-F
Q-2	i-C <sub>3</sub> H <sub>7</sub>	4-CN	Q-2	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	2-F, 4-C1	Q-2	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>2</sub> H
Q-16	i-C <sub>3</sub> H <sub>7</sub>	4-CN	Q-16	i-C <sub>3</sub> H <sub>7</sub>	2-F, 4-Cl	Q-16	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>2</sub> H
Q-24	i-C <sub>3</sub> H <sub>7</sub>	4-CN	Q-24	i-C <sub>3</sub> H <sub>7</sub>	2-F, 4-Cl	Q-24	i-C3H7	4-OCF <sub>2</sub> H
Q-29	i-C <sub>3</sub> H <sub>7</sub>	4-CN	Q-29	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	2-F, 4-C1	Q-29	i-C3H7	4-OCF <sub>2</sub> H
Q-57	i-C <sub>3</sub> H <sub>7</sub>	4-CN	Q-57	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	2-F, 4-C1	Q-57	i-C3H7	4-OCF <sub>2</sub> H
Q-71	i-C <sub>3</sub> H <sub>7</sub>	4-CN	Q-71	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	2-F, 4-Cl	Q-71	i-C3H7	4-0CF <sub>2</sub> H
Q-100	i-C <sub>3</sub> H <sub>7</sub>	4-CN	Q-100	i-C <sub>3</sub> H <sub>7</sub>	2-F, 4-Cl	Q-100	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>2</sub> H
Q-119	i-C <sub>3</sub> H <sub>7</sub>	4-CN	Q-119	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	2-F, 4-C1	Q-119	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>2</sub> H
Q-120	i-C <sub>3</sub> H <sub>7</sub>	4-CN	Q-120	i-C <sub>3</sub> H <sub>7</sub>	2-F, 4-C1	Q-120	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>2</sub> H
Q-126	i-C <sub>3</sub> H <sub>7</sub>	4-CN	Q-126	i-C <sub>3</sub> H <sub>7</sub>	2-F, 4-C1	Q-126	i-C <sub>3</sub> H <sub>7</sub>	4-0CF <sub>2</sub> H
Q-130	i-C <sub>3</sub> H <sub>7</sub>	4-CN	Q-130	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	2- <b>F</b> , 4-Cl	Q-130	i-C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>2</sub> H
Q-144	i-C <sub>3</sub> H <sub>7</sub>	4-CN	Q-144	i-C <sub>3</sub> H <sub>7</sub>	2-F, 4-Cl	Q-144	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	4-0CF <sub>2</sub> H
Q-162	i-C <sub>3</sub> H <sub>7</sub>	4-CN	Q-162	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	2-F, 4-Cl	Q-162	<i>i</i> -C <sub>3</sub> H <sub>7</sub>	4-OCF <sub>2</sub> H
Q-169	i-C <sub>3</sub> H <sub>7</sub>	4-CN	Q-169	i-C <sub>3</sub> H <sub>7</sub>	2-F, 4-C1	Q-169	i-C3H7	4-OCF <sub>2</sub> H
Q-2	i-C <sub>3</sub> H <sub>7</sub>	4-NO <sub>2</sub>	Q-2	i-C <sub>3</sub> H <sub>7</sub>	3,4-di-F	Q-2	i-C <sub>3</sub> H <sub>7</sub>	4-SCH <sub>3</sub>
Q-16	i-C <sub>3</sub> H <sub>7</sub>	4-NO <sub>2</sub>	Q-16	i-C <sub>3</sub> H <sub>7</sub>	3,4-di-F	Q-16	<i>i</i> -C <sub>3</sub> H <sub>7</sub>	4-SCH <sub>3</sub>
Q-24	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	4-NO <sub>2</sub>	Q-24	i-C <sub>3</sub> H <sub>7</sub>	3,4-di-F	Q-24	i-C <sub>3</sub> H <sub>7</sub>	4-SCH <sub>3</sub>
Q-29	i-C <sub>3</sub> H <sub>7</sub>	4-NO <sub>2</sub>	Q-29	i-C <sub>3</sub> H <sub>7</sub>	3,4-di-F	Q-29	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	4-SCH <sub>3</sub>
Q-57	i-C <sub>3</sub> H <sub>7</sub>	4-NO <sub>2</sub>	Q-57	i-C <sub>3</sub> H <sub>7</sub>	3,4-di-F	Q-57	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	4-SCH <sub>3</sub>
Q-71	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	4-NO <sub>2</sub>	Q-71	i-C <sub>3</sub> H <sub>7</sub>	3,4-di-F	Q-71	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	4-SCH <sub>3</sub>
Q-100	i-C <sub>3</sub> H <sub>7</sub>	4-NO <sub>2</sub>	Q-100	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	3,4-di-F	Q-100	i-C <sub>3</sub> H <sub>7</sub>	4-SCH <sub>3</sub>
Q-119	i-C <sub>3</sub> H <sub>7</sub>	4-NO <sub>2</sub>	Q-119	i-C <sub>3</sub> H <sub>7</sub>	3,4-di-F	Q-119	<i>i</i> -C <sub>3</sub> H <sub>7</sub>	4-SCH <sub>3</sub>
Q-120	i-C <sub>3</sub> H <sub>7</sub>	4-NO <sub>2</sub>	Q-120	<i>i</i> -C <sub>3</sub> H <sub>7</sub>	3,4-di-F	Q-120	i-C <sub>3</sub> H <sub>7</sub>	4-SCH <sub>3</sub>
Q-126	i-C <sub>3</sub> H <sub>7</sub>	4-NO <sub>2</sub>	Q-126	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	3,4-di-F	Q-126	i-C <sub>3</sub> H <sub>7</sub>	4-SCH <sub>3</sub>
Q-130	i-C <sub>3</sub> H <sub>7</sub>	4-NO <sub>2</sub>	Q-130	i-C <sub>3</sub> H <sub>7</sub>	3,4-di-F	Q-130	i-C <sub>3</sub> H <sub>7</sub>	4-SCH <sub>3</sub>
Q-144	i-C <sub>3</sub> H <sub>7</sub>	4-NO <sub>2</sub>	Q-144	i-C <sub>3</sub> H <sub>7</sub>	3,4-di-F	Q-144	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	4-SCH <sub>3</sub>
Q-162	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	4-NO <sub>2</sub>	Q-162	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	3,4-di-F	Q-162	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	4-SCH <sub>3</sub>
Q-169	i-C <sub>3</sub> H <sub>7</sub>	4-NO <sub>2</sub>	Q-169	i-C <sub>3</sub> H <sub>7</sub>	3,4-di-F	Q-169	i-C <sub>3</sub> H <sub>7</sub>	4-SCH <sub>3</sub>

Q	R <sup>2</sup>	R <sup>13</sup>	Q	R <sup>2</sup>	R <sup>13</sup>	Q	R <sup>2</sup>	R <sup>13</sup>
O-2	Allyl	4-F	Q-2	Allyl	2,4-di-F	Q-2	Allyl	4-C1
0-16	Alivi	4-F	0-16	Alivi	2,4-di-F	Q-16	Allyl	4-C1

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Q	R <sup>2</sup>	R <sup>13</sup>	Q	R <sup>2</sup>	R <sup>13</sup>	Q	R <sup>2</sup>	R <sup>13</sup>
Q-24	Allyl	4-F	Q-24	Allyl	2,4-di-F	Q-24	Allyl	4-C1
Q-29	Allyl	4-F	Q-29	Allyl	2,4-di-F	Q-29	Allyl	4-C1
Q-57	Allyl	4-F	Q-57	Allyl	2,4-di-F	Q-57	Allyl	4-C1
Q-71	Allyl	4-F	Q-71	Allyl	2,4-di-F	Q-71	Allyl	4-Cl
Q-100	Allyl	4-F	Q-100	Allyl	2,4-di-F	Q-100	Allyl	4-C1
Q-119	Allyl	4-F	Q-119	Allyl	2,4-di-F	Q-119	Allyl	4-C1
Q-120	Allyl	4-F	Q-120	Allyl	2,4-di-F	Q-120	Allyl	4-C1
Q-126	Allyl	4-F	Q-126	Allyi	2,4-di-F	Q-126	Allyl	4-C1
Q-130	Allyl	4-F	Q-130	Allyl	2,4-di-F	Q-130	Allyl	4-C1
Q-144	Aliyl	4-F	Q-144	Allyl	2,4-di-F	Q-144	Allyl	4-C1
Q-162	Allyl	4-F	Q-162	Allyl	2,4-di-F	Q-162	Allyl	4-C1
Q-169	Allyl	4-F	Q-169	Allyl	2,4-di-F	Q-169	Allyl	4-Cl
Q-2	OCH <sub>3</sub>	4-F	Q-2	OCH <sub>3</sub>	2,4-di-F	Q-2	OCH <sub>3</sub>	4-Cl
Q-16	OCH <sub>3</sub>	4-F	Q-16	OCH <sub>3</sub>	2,4-di-F	Q-16	OCH <sub>3</sub>	4-Cl
Q-24	OCH <sub>3</sub>	4-F	Q-24	OCH <sub>3</sub>	2,4-di-F	Q-24	OCH <sub>3</sub>	4-C1
Q-29	OCH <sub>3</sub>	4-F	Q-29	OCH <sub>3</sub>	2,4-di-F	Q-29	OCH <sub>3</sub>	4-Cl
Q-57	OCH <sub>3</sub>	4-F	Q-57	OCH <sub>3</sub>	2,4-di-F	Q-57	OCH <sub>3</sub>	4-Cl
Q-71	OCH <sub>3</sub>	4-F	Q-71	OCH <sub>3</sub>	2,4-di-F	Q-71	OCH <sub>3</sub>	4-C1
Q-100	OCH <sub>3</sub>	4-F	Q-100	OCH <sub>3</sub>	2,4-di-F	Q-100	OCH <sub>3</sub>	4-C1
Q-119	OCH <sub>3</sub>	4-F	Q-119	OCH <sub>3</sub>	2,4-di-F	Q-119	OCH <sub>3</sub>	4-C1
Q-120	ОСН <sub>3</sub>	4-F	Q-120	OCH <sub>3</sub>	2,4-di-F	Q-120	OCH <sub>3</sub>	4-Cl
Q-126	осн3	4-F	Q-126	OCH <sub>3</sub>	2,4-di-F	Q-126	OCH <sub>3</sub>	4-C1
Q-130	OCH <sub>3</sub>	4-F	Q-130	OCH <sub>3</sub>	2,4-di-F	Q-130	OCH <sub>3</sub>	4-C1
Q-144	OCH <sub>3</sub>	4-F	Q-144	OCH <sub>3</sub>	2,4-di-F	Q-144	OCH <sub>3</sub>	4-Ci
Q-162	осн3	4-F	Q-162	OCH <sub>3</sub>	2,4-di-F	Q-162	OCH <sub>3</sub>	4-Cl
Q-169	ОСH <sub>3</sub>	4-F	Q-169	OCH <sub>3</sub>	2,4-di-F	Q-169	OCH <sub>3</sub>	4-Cl
Q-2	N(CH <sub>3</sub> ) <sub>2</sub>	4-F	Q-2	N(CH <sub>3</sub> ) <sub>2</sub>	2,4-di-F	Q-2	N(CH <sub>3</sub> ) <sub>2</sub>	4-C1
Q-16	N(CH <sub>3</sub> ) <sub>2</sub>	4-F	Q-16	N(CH <sub>3</sub> ) <sub>2</sub>	2,4-di-F	Q-16	N(CH <sub>3</sub> ) <sub>2</sub>	4-C1
Q-24	N(CH <sub>3</sub> ) <sub>2</sub>	4-F	Q-24	N(CH <sub>3</sub> ) <sub>2</sub>	2,4-di-F	Q-24	N(CH <sub>3</sub> ) <sub>2</sub>	4-Cl
Q-29	N(CH <sub>3</sub> ) <sub>2</sub>	4-F	Q-29	N(CH <sub>3</sub> ) <sub>2</sub>	2,4-di-F	Q-29	N(CH <sub>3</sub> ) <sub>2</sub>	4-C1
Q-57	N(CH <sub>3</sub> ) <sub>2</sub>	4-F	Q-57	N(CH <sub>3</sub> ) <sub>2</sub>	2,4-di-F	Q-57	N(CH <sub>3</sub> ) <sub>2</sub>	4-C1
Q-71	N(CH <sub>3</sub> ) <sub>2</sub>	4-F	Q-71	N(CH <sub>3</sub> ) <sub>2</sub>	2,4-di-F	Q-71	N(CH <sub>3</sub> ) <sub>2</sub>	4-C1
Q-100	N(CH <sub>3</sub> ) <sub>2</sub>	4-F	Q-100	N(CH <sub>3</sub> ) <sub>2</sub>	2,4-di-F	Q-100	N(CH <sub>3</sub> ) <sub>2</sub>	4-C1

Q	R <sup>2</sup>	R13	Q	R <sup>2</sup>	R <sup>13</sup>	Q	R <sup>2</sup>	R <sup>13</sup>
Q-119	N(CH <sub>3</sub> ) <sub>2</sub>	4-F	Q-119	N(CH <sub>3</sub> ) <sub>2</sub>	2,4-di-F	Q-119	N(CH <sub>3</sub> ) <sub>2</sub>	4-C1
Q-120	N(CH <sub>3</sub> ) <sub>2</sub>	4-F	Q-120	N(CH <sub>3</sub> ) <sub>2</sub>	2,4-di-F	Q-120	N(CH <sub>3</sub> ) <sub>2</sub>	4-C1
Q-126	N(CH <sub>3</sub> ) <sub>2</sub>	4-F	Q-126	N(CH <sub>3</sub> ) <sub>2</sub>	2,4-di-F	Q-126	N(CH <sub>3</sub> ) <sub>2</sub>	4-Cl
Q-130	N(CH <sub>3</sub> ) <sub>2</sub>	4-F	Q-130	N(CH <sub>3</sub> ) <sub>2</sub>	2,4-di-F	Q-130	N(CH <sub>3</sub> ) <sub>2</sub>	4-C1
Q-144	N(CH <sub>3</sub> ) <sub>2</sub>	4-F	Q-144	N(CH <sub>3</sub> ) <sub>2</sub>	2,4-di-F	Q-144	N(CH <sub>3</sub> ) <sub>2</sub>	4-C1
Q-162	N(CH <sub>3</sub> ) <sub>2</sub>	4-F	Q-162	N(CH <sub>3</sub> ) <sub>2</sub>	2,4-di-F	Q-162	N(CH <sub>3</sub> ) <sub>2</sub>	4-Cl
Q-169	N(CH <sub>3</sub> ) <sub>2</sub>	4-F	Q-169	N(CH <sub>3</sub> ) <sub>2</sub>	2,4-di-F	Q-169	N(CH <sub>3</sub> ) <sub>2</sub>	4-C1
Q-2	CH <sub>2</sub> OCH <sub>3</sub>	4-F	Q-2	СН2ОСН3	2,4-di-F	Q-2	CH <sub>2</sub> OCH <sub>3</sub>	4-C1
Q-16	CH <sub>2</sub> OCH <sub>3</sub>	4-F	Q-16	СН2ОСН3	2,4-di-F	Q-16	CH <sub>2</sub> OCH <sub>3</sub>	4-CI
Q-24	СН <sub>2</sub> ОСН <sub>3</sub>	4-F	Q-24	CH <sub>2</sub> OCH <sub>3</sub>	2,4-di-F	Q-24	CH <sub>2</sub> OCH <sub>3</sub>	4-C1
Q-29	CH <sub>2</sub> OCH <sub>3</sub>	4-F	Q-29	CH <sub>2</sub> OCH <sub>3</sub>	2,4-di-F	Q-29	CH <sub>2</sub> OCH <sub>3</sub>	4-C1
Q-57	CH <sub>2</sub> OCH <sub>3</sub>	4-F	Q-57	СН2ОСН3	2,4-di-F	Q-57	CH <sub>2</sub> OCH <sub>3</sub>	4-C1
Q-71	СН <sub>2</sub> ОСН <sub>3</sub>	4-F	Q-71	СН2ОСН3	2,4-di-F	Q-71	СН2ОСН3	4-C1
Q-100	CH <sub>2</sub> OCH <sub>3</sub>	4-F	Q-100	СН2ОСН3	2,4-di-F	Q-100	СН2ОСН3	4-C1
Q-119	CH <sub>2</sub> OCH <sub>3</sub>	4-F	Q-119	СН <sub>2</sub> ОСН <sub>3</sub>	2,4-di-F	Q-119	СH <sub>2</sub> ОСН <sub>3</sub>	4-C1
Q-120	CH <sub>2</sub> OCH <sub>3</sub>	4-F	Q-120	СН <sub>2</sub> ОСН <sub>3</sub>	2,4-di-F	Q-120	СН <sub>2</sub> ОСН <sub>3</sub>	4-C1
Q-126	СН <sub>2</sub> ОСН <sub>3</sub>	4-F	Q-126	СН2ОСН3	2,4-di-F	Q-126	СН <sub>2</sub> ОСН <sub>3</sub>	4-C1
Q-130	CH <sub>2</sub> OCH <sub>3</sub>	4-F	Q-130	СН <sub>2</sub> ОСН <sub>3</sub>	2,4-di-F	Q-130	СН <sub>2</sub> ОСН <sub>3</sub>	4-C1
Q-144	CH <sub>2</sub> OCH <sub>3</sub>	4-F	Q-144	СН2ОСН3	2,4-di-F	Q-144	СН <sub>2</sub> ОСН <sub>3</sub>	4-C1
Q-162	CH <sub>2</sub> OCH <sub>3</sub>	4-F	Q-162	CH <sub>2</sub> OCH <sub>3</sub>	2,4-di-F	Q-162	CH <sub>2</sub> OCH <sub>3</sub>	4-C1
Q-169	CH <sub>2</sub> OCH <sub>3</sub>	4-F	Q-169	СН <sub>2</sub> ОСН <sub>3</sub>	2,4-di-F	Q-169	CH <sub>2</sub> OCH <sub>3</sub>	4-C1_
Q-2	CH <sub>2</sub> CF <sub>3</sub>	4-F	Q-2	CH <sub>2</sub> CF <sub>3</sub>	2,4-di-F	Q-2	CH <sub>2</sub> CF <sub>3</sub>	4-C1
Q-16	CH <sub>2</sub> CF <sub>3</sub>	4-F	Q-16	CH <sub>2</sub> CF <sub>3</sub>	2,4-di-F	Q-16	CH <sub>2</sub> CF <sub>3</sub>	4-C1
Q-24	CH <sub>2</sub> CF <sub>3</sub>	4-F	Q-24	CH <sub>2</sub> CF <sub>3</sub>	2,4-di-F	Q-24	CH <sub>2</sub> CF <sub>3</sub>	4-Cl
Q-29	CH <sub>2</sub> CF <sub>3</sub>	4-F	Q-29	CH <sub>2</sub> CF <sub>3</sub>	2,4-di-F	Q-29	CH <sub>2</sub> CF <sub>3</sub>	4-C1
Q-57	CH <sub>2</sub> CF <sub>3</sub>	4-F	Q-57	CH <sub>2</sub> CF <sub>3</sub>	2,4-di-F	Q-57	CH <sub>2</sub> CF <sub>3</sub>	4-Cl
Q-71	CH <sub>2</sub> CF <sub>3</sub>	4-F	Q-71	CH <sub>2</sub> CF <sub>3</sub>	2,4-di-F	Q-71	CH <sub>2</sub> CF <sub>3</sub>	4-C1
Q-100	CH <sub>2</sub> CF <sub>3</sub>	4-F	Q-100	CH <sub>2</sub> CF <sub>3</sub>	2,4-di-F	Q-100	CH <sub>2</sub> CF <sub>3</sub>	4-C1
Q-119	CH <sub>2</sub> CF <sub>3</sub>	4-F	Q-119	CH <sub>2</sub> CF <sub>3</sub>	2,4-di-F	Q-119	CH <sub>2</sub> CF <sub>3</sub>	4-C1
Q-120	CH <sub>2</sub> CF <sub>3</sub>	4-F	Q-120	CH <sub>2</sub> CF <sub>3</sub>	2,4-di-F	Q-120	CH <sub>2</sub> CF <sub>3</sub>	4-Ci
Q-126	CH <sub>2</sub> CF <sub>3</sub>	4-F	Q-126	CH <sub>2</sub> CF <sub>3</sub>	2,4-di-F	Q-126	CH <sub>2</sub> CF <sub>3</sub>	4-C1
Q-130	CH <sub>2</sub> CF <sub>3</sub>	4-F	Q-130	CH <sub>2</sub> CF <sub>3</sub>	2,4-di-F	Q-130	CH <sub>2</sub> CF <sub>3</sub>	4-C1
Q-144	CH <sub>2</sub> CF <sub>3</sub>	4-F	Q-144	CH <sub>2</sub> CF <sub>3</sub>	2,4-di-F	Q-144	CH <sub>2</sub> CF <sub>3</sub>	4-C1

Q	R <sup>2</sup>	R <sup>13</sup>	Q	R <sup>2</sup>	R <sup>13</sup>	Q	R <sup>2</sup>	R <sup>13</sup>
Q-162	CH <sub>2</sub> CF <sub>3</sub>	4-F	Q-162	CH <sub>2</sub> CF <sub>3</sub>	2,4-di-F	Q-162	CH <sub>2</sub> CF <sub>3</sub>	4-C1
Q-169	CH <sub>2</sub> CF <sub>3</sub>	4-F	Q-169	CH <sub>2</sub> CF <sub>3</sub>	2,4-di-F	Q-169	CH <sub>2</sub> CF <sub>3</sub>	4-C1

TABLE 2

$$Q = \bigvee_{N=0}^{N} \bigvee_{N=1}^{N} R^{1}$$

 $R^1$  is  $C_2H_5$ ,  $R^2$  is B-1

Q	Q	Q	Q	Q	Q	Q	Q	Q
Q-1	Q-2	Q-3	Q-4	Q-5	Q-6	Q-7	Q-8	Q-9
Q-10	Q-11	Q-12	Q-13	Q-14	Q-15	Q-16	Q-17	Q-18
Q-19	Q-20	Q-21	Q-22	Q-23	Q-24	Q-25	Q-26	Q-27
Q-28	Q-29	Q-30	Q-31	Q-32	Q-33	Q-34	Q-35	Q-36
Q-37	Q-38	Q-39	Q-40	Q-41	Q-42	Q-43	Q-44	Q-45
Q-46	Q-47	Q-48	Q-49	Q-50	Q-51	Q-52	Q-53	Q-54
Q-55	Q-56	Q-57	Q-58	Q-59	Q-60	Q-61	Q-62	Q-63
Q-64	Q-65	Q-66	Q-67	Q-68	Q-69	Q-70	Q-71	Q-72
Q-73	Q-74	Q-75	Q-76	Q-77	Q-78	Q-79	Q-80	Q-81
Q-82	Q-83	Q-84	Q-85	Q-86	Q-87	Q-88	Q-89	Q-90
Q-91	Q-92	Q-93	Q-94	Q-95	Q-96	Q-97	Q-98	Q-99
Q-100	Q-101	Q-102	Q-103	Q-104	Q-105	Q-106	Q-107	Q-108
Q-109	Q-110	Q-111	Q-112	Q-113	Q-114	Q-115	Q-116	Q-117
Q-118	Q-119	Q-120	Q-121	Q-122	Q-123	Q-124	Q-125	Q-126
Q-127	Q-128	Q-129	Q-130	Q-131	Q-132	Q-133	Q-134	Q-135
Q-136	Q-137	Q-138	Q-139	Q-140	Q-141	Q-142	Q-143	Q-144
Q-145	Q-146	Q-147	Q-148	Q-149	Q-150	Q-151	Q-152	Q-153
Q-154	Q-155	Q-156	Q-157	Q-158	Q-159	Q-160	Q-161	Q-162
Q-163	Q-164	Q-165	Q-166	Q-167	Q-168	Q-169	Q-170	Q-171
Q-172	Q-173	Q-174	Q-175				•	

 $R^1$  is *i*-C<sub>3</sub>H<sub>7</sub>,  $R^2$  is B-4

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Q	Q	Q	Q	Q	Q	Q	Q	Q
Q-1	Q-2	Q-3	Q-4	Q-5	Q-6	Q-7	Q-8	Q-9
Q-10	Q-11	Q-12	Q-13	Q-14	Q-15	Q-16	Q-17	Q-18
Q-19	Q-20	Q-21	Q-22	Q-23	Q-24	Q-25	Q-26	Q-27
Q-28	Q-29	Q-30	Q-31	Q-32	Q-33	Q-34	Q-35	Q-36
Q-37	Q-38	Q-39	Q-40	Q-41	Q-42	Q-43	Q-44	Q-45
Q-46	Q-47	Q-48	Q-49	Q-50	Q-51	Q-52	Q-53	Q-54
Q-55	Q-56	Q-57	Q-58	Q-59	Q-60	Q-61	Q-62	Q-63
Q-64	Q-65	Q-66	Q-67	Q-68	Q-69	Q-70	Q-71	Q-72
Q-73	Q-74	Q-75	Q-76	Q-77	Q-78	Q-79	Q-80	Q-81
Q-82	Q-83	Q-84	Q-85	Q-86	Q-87	Q-88	Q-89	Q-90
Q-91	Q-92	Q-93	Q-94	Q-95	Q-96	Q-97	Q-98	Q-99
Q-100	Q-101	Q-102	Q-103	Q-104	Q-105	Q-106	Q-107	Q-108
Q-109	Q-110	Q-111	Q-112	Q-113	Q-114	Q-115	Q-116	Q-117
Q-118	Q-119	Q-120	Q-121	Q-122	Q-123	Q-124	Q-125	Q-126
Q-127	Q-128	Q-129	Q-130	Q-131	Q-132	Q-133	Q-134	Q-135
Q-136	Q-137	Q-138	Q-139	Q-140	Q-141	Q-142	Q-143	Q-144
Q-145	Q-146	Q-147	Q-148	Q-149	Q-150	Q-151	Q-152	Q-153
Q-154	Q-155	Q-156	Q-157	Q-158	Q-159	Q-160	Q-161	Q-162
Q-163	Q-164	Q-165	Q-166	Q-167	Q-168	Q-169	Q-170	Q-171
Q-172	Q-173	Q-174	Q-175					

 $R^1$  is  $C_2H_5$ ,  $R^2$  is B-4

Q	Q	Q	Q	Q	Q	Q	Q	Q
Q-1	Q-2	Q-3	Q-4	Q-5	Q- <u>6</u>	Q-7	Q-8	Q-9
Q-10	Q-11	Q-12	Q-13	Q-14	Q-15	Q-16	Q-17	Q-18
Q-19	Q-20	Q-21	Q-22	Q-23	Q-24	Q-25	Q-26	Q-27
Q-28	Q-29	Q-30	Q-31	Q-32	Q-33	Q-34	Q-35	Q-36
Q-37	Q-38	Q-39	Q-40	Q-41	Q-42	Q-43	Q-44	Q-45
Q-46	Q-47	Q-48	Q-49	Q-50	Q-51	Q-52	Q-53	Q-54
Q-55	Q-56	Q-57	Q-58	Q-59	Q-60	Q-61	Q-62	Q-63
Q-64	Q-65	Q <u>-</u> 66	Q-67	Q <u>-</u> 68	Q-69	Q-70	Q-71	Q-72
Q-73	Q-74	Q-75	Q-76	Q-77	Q-78	Q-79	Q-80	Q-81
Q-82	Q-83	Q-84	Q-85	Q-86	Q-87	Q-88	Q-89	Q-90

Q-91	Q-92	Q-93	Q-94	Q-95	Q-96	Q-97	Q-98	Q-99
Q-100	Q-101	Q-102	Q-103	Q-104	Q-105	Q-106	Q-107	Q-108
Q-109	Q-110	Q-111	Q-112	Q-113	Q-114	Q-115	Q-116	Q-117
Q-118	Q-119	Q-120	Q-121	Q-122	Q-123	Q-124	Q-125	Q-126
Q-127	Q-128	Q-129	Q-130	Q-131	Q-132	Q-133	Q-134	Q-135
Q-136	Q-137	Q-138	Q-139	Q-140	Q-141	Q-142	Q-143	Q-144
Q-145	Q-146	Q-147	Q-148	Q-149	Q-150	Q-151	Q-152	Q-153
Q-154	Q-155	Q-156	Q-157	Q-158	Q-159	Q-160	Q-161	Q-162
Q-163	Q-164	Q-165	Q-166	Q-167	Q-168	Q-169	Q-170	Q-171
Q-172	Q-173	Q-174	Q-175					

 $R^1$  is  $C_2H_5$ ,  $R^2$  is B-10

Q	Q	Q	Q	Q	Q	Q	Q	Q
Q-1	Q-2	Q-3	Q-4	Q-5	Q-6	Q-7	Q-8	Q-9
Q-10	Q-11	Q-12	Q-13	Q-14	Q-15	Q-16	Q-17	Q-18
Q-19	Q-20	Q-21	Q-22	Q-23	Q-24	Q-25	Q-26	Q-27
Q-28	Q-29	Q-30	Q-31	Q-32	Q-33	Q-34	Q-35	Q-36
Q-37	Q-38	Q-39	Q-40	Q-41	Q-42	Q-43	Q-44	Q-45
Q-46	Q-47	Q-48	Q-49	Q-50	Q-51	Q-52	Q-53	Q-54
Q-55	Q-56	Q-57	Q-58	Q-59	Q-60	Q-61	Q-62	Q-63
Q-64	Q-65	Q-66	Q-67	Q-68	Q-69	Q-70	Q-71	Q-72
Q-73	Q-74	Q-75	Q-76	Q-77	Q-78	Q-79	Q-80	Q-81
Q-82	Q-83	Q-84	Q-85	Q-86	Q-87	Q-88	Q-89	Q-90
Q-91	Q-92	Q-93	Q-94	Q-95	Q-96	Q-97	Q-98	Q-99
Q-100	Q-101	Q-102	Q-103	Q-104	Q-105	Q-106	Q-107	Q-108
Q-109	Q-110	Q-111	Q-112	Q-113	Q-114	Q-115	Q-116	Q-117
Q-118	Q-119	Q-120	Q-121	Q-122	Q-123	Q-124	Q-125	Q-126
Q-127	Q-128	Q-129	Q-130	Q-131	Q-132	Q-133	Q-134	Q-135
Q-136	Q-137	Q-138	Q-139	Q-140	Q-141	Q-142	Q-143	Q-144
Q-145	Q-146	Q-147	Q-148	Q-149	Q-150	Q-151	Q-152	Q-153
Q-154	Q-155	Q-156	Q-157	Q-158	Q-159	Q-160	Q-161	Q-162
Q-163	Q-164	Q-165	Q-166	Q-167	Q-168	Q-169	Q-170	Q-171
Q-172	Q-173	Q-174	Q-175					

Rl	ie	i-C2	H-	<sub>R</sub> 2	ie	R.	ı۸
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Q	Q	Q	Q	Q	Q	Q	Q	Q
Q-1	Q-2	Q-3	Q-4	Q-5	Q-6	Q-7	Q-8	Q-9
Q-10	Q-11	Q-12	Q-13	Q-14	Q-15	Q-16	Q-17	Q-18
Q-19	Q-20	Q-21	Q-22	Q-23	Q-24	Q-25	Q-26	Q-27
Q-28	Q-29	Q-30	Q-31	Q-32	Q-33	Q-34	Q-35	Q-36
Q-37	Q-38	Q-39	Q-40	Q-41	Q-42	Q-43	Q-44	Q-45
Q-46	Q-47	Q-48	Q-49	Q-50	Q-51	Q-52	Q-53	Q-54
Q-55	Q-56	Q-57	Q-58	Q-59	Q-60	Q-61	Q-62	Q-63
Q-64	Q-65	Q-66	Q-67	Q-68	Q-69	Q-70	Q-71	Q-72
Q-73	Q-74	Q-75	Q-76	Q-77	Q-78	Q-79	Q-80	Q-81
Q-82	Q-83	Q-84	Q-85	Q-86	Q-87	Q-88	Q-89	Q-90
Q-91	Q-92	Q-93	Q-94	Q-95	Q-96 •	Q-97	Q-98	Q-99
Q-100	Q-101	Q-102	Q-103	Q-104	Q-105	Q-106	Q-107	Q-108
Q-109	Q-110	Q-111	Q-112	Q-113	Q-114	Q-115	Q-116	Q-117
Q-118	Q-119	Q-120	Q-121	Q-122	Q-123	Q-124	Q-125	Q-126
Q-127	Q-128	Q-129	Q-130	Q-131	Q-132	Q-133	Q-134	Q-135
Q-136	Q-137	Q-138	Q-139	Q-140	Q-141	Q-142	Q-143	Q-144
Q-145	Q-146	Q-147	Q-148	Q-149	Q-150	Q-151	Q-152	Q-153
Q-154	Q-155	Q-156	Q-157	Q-158	Q-159	Q-160	Q-161	Q-162
Q-163	Q-164	Q-165	Q-166	Q-167	Q-168	Q-169	Q-170	Q-171
Q-172	Q-173	Q-174	Q-175					

Q	R <sup>1</sup>	R <sup>2</sup>	Q	R <sup>1</sup>	R <sup>2</sup>	Q	R <sup>1</sup>	R <sup>2</sup>
Q-2	Cyclopropyl	B-10	Q-2	Allyl	B-4	Q-2	Cyclohexyl	B-18
Q-16	Cyclopropyl	B-10	Q-16	Allyl	B-4	Q-16	Cyclohexyl	B-18
Q-24	Cyclopropyl	B-10	Q-24	Allyl	B-4	Q-24	Cyclohexyl	B-18
Q-29	Cyclopropyl	B-10	Q-29	Allyl	B-4	Q-29	Cyclohexyl	B-18
Q-57	Cyclopropyl	B-10	Q-57	Allyl	B-4	Q-57	Cyclohexyl	B-18
Q-71	Cyclopropyl	B-10	Q-71	Allyl	B-4	Q-71	Cyclohexyl	B-18
Q-100	Cyclopropyl	B-10	Q-100	Allyi	B-4	Q-100	Cyclohexyl	B-18
Q-119	Cyclopropyl	B-10	Q-119	Allyl	B-4	Q-119	Cyclohexyl	B-18
Q-120	Cyclopropyl	B-10	Q-120	Allyl	B-4	Q-120	Cyclohexyl	B-18
Q-126	Cyclopropyl	B-10	Q-126	Allyl	B-4	Q-126	Cycl hexyl	B-18
Q-130	Cyclopropyl	B-10	Q-130	Allyl	B-4	Q-130	Cyclohexyl	B-18

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Q-144	Cyclopropyi	B-10	Q-144	Allyl	B-4	Q-144	Cyclohexyl	B-18
Q-162	Cyclopropyl	B-10	Q-162	Allyl	B-4	Q-162	Cyclohexyl	B-18
Q-169	Cyclopropyl	B-10	Q-169	Aliyi	B-4	Q-169	Cyclohexyl	B-18
Q-2	n-C4H9	B-10	Q-2	Cyclopropyl	B-4	Q-2	i-C <sub>3</sub> H <sub>7</sub>	B-18
Q-16	n-C <sub>4</sub> H <sub>9</sub>	B-10	Q-16	Cyclopropyl	B-4	Q-16	i-C <sub>3</sub> H <sub>7</sub>	B-18
Q-24	n-C <sub>4</sub> H <sub>9</sub>	B-10	Q-24	Cyclopropyl	B-4	Q-24	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-18
Q-29	n-C <sub>4</sub> H <sub>9</sub>	B-10	Q-29	Cyclopropyl	B-4	Q-29	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-18
Q-57	n-C <sub>4</sub> H <sub>9</sub>	B-10	Q-57	Cyclopropyl	B-4	Q-57	i-C <sub>3</sub> H <sub>7</sub>	B-18
Q-71	n-C <sub>4</sub> H <sub>9</sub>	B-10	Q-71	Cyclopropyl	B-4	Q-71	i-C <sub>3</sub> H <sub>7</sub>	B-18
Q-100	n-C <sub>4</sub> H <sub>9</sub>	B-10	Q-100	Cyclopropyl	B-4	Q-100	i-C <sub>3</sub> H <sub>7</sub>	B-18
Q-119	n-C <sub>4</sub> H <sub>9</sub>	B-10	Q-119	Cyclopropyl	B-4	Q-119	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-18
Q-120	n-C4H9	B-10	Q-120	Cyclopropyl	B-4	Q-120	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-18
Q-126	n-C <sub>4</sub> H <sub>9</sub>	B-10	Q-126	Cyclopropyl	B-4	Q-126	i-C <sub>3</sub> H <sub>7</sub>	B-18
Q-130	n-C4H9	B-10	Q-130	Cyclopropyl	B-4	Q-130	i-C <sub>3</sub> H <sub>7</sub>	B-18
Q-144	n-C4H9	B-10	Q-144	Cyclopropyl	B-4	Q-144	i-C <sub>3</sub> H <sub>7</sub>	B-18
Q-162	n-C <sub>4</sub> H <sub>9</sub>	B-10	Q-162	Cyclopropyl	B-4	Q-162	i-C <sub>3</sub> H <sub>7</sub>	B-18
Q-169	n-C <sub>4</sub> H <sub>9</sub>	B-10	Q-169	Cyclopropyl	B-4	Q-169	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-18
Q-2	СН2СН2ОСН3	B-10	Q-2	CH <sub>3</sub>	B-4	Q-2	Cyclohexyl	B-17
Q-16	CH <sub>2</sub> CH <sub>2</sub> OCH <sub>3</sub>	B-10	Q-16	CH <sub>3</sub>	B-4	Q-16	Cyclohexyl	B-17
Q-24	CH <sub>2</sub> CH <sub>2</sub> OCH <sub>3</sub>	B-10	Q-24	CH <sub>3</sub>	B-4	Q-24	Cyclohexyl	B-17
Q-29	CH <sub>2</sub> CH <sub>2</sub> OCH <sub>3</sub>	B-10	Q-29	CH <sub>3</sub>	B-4	Q-29	Cyclohexyl	B-17
Q-57	CH <sub>2</sub> CH <sub>2</sub> OCH <sub>3</sub>	B-10	Q-57	CH <sub>3</sub>	B-4	Q-57	Cyclohexyl	B-17
Q-71	CH <sub>2</sub> CH <sub>2</sub> OCH <sub>3</sub>	B-10	Q-71	CH <sub>3</sub>	B-4	Q-71	Cyclohexyl	B-17
Q-100	СН2СН2ОСН3	B-10	Q-100	CH <sub>3</sub>	B-4	Q-100	Cyclohexyl	B-17
Q-119	CH <sub>2</sub> CH <sub>2</sub> OCH <sub>3</sub>	B-10	Q-119	CH <sub>3</sub>	B-4	Q-119	Cyclohexyl	B-17
Q-120	СН <sub>2</sub> СН <sub>2</sub> ОСН <sub>3</sub>	B-10	Q-120	СН3	B-4	Q-120	Cyclohexyl	B-17
Q-126	СН <sub>2</sub> СН <sub>2</sub> ОСН <sub>3</sub>	B-10	Q-126	CH <sub>3</sub>	B-4	Q-126	Cyclohexyl	B-17
Q-130	CH2CH2OCH3	B-10	Q-130	CH <sub>3</sub>	B-4	Q-130	Cyclohexyl	B-17
Q-144	СН2СН2ОСН3	B-10	Q-144	СН3	B-4	Q-144	Cyclohexyl	B-17
Q-162	CH <sub>2</sub> CH <sub>2</sub> OCH <sub>3</sub>	B-10	Q-162	CH <sub>3</sub>	B-4	Q-162	Cyclohexyl	B-17
Q-169	CH <sub>2</sub> CH <sub>2</sub> OCH <sub>3</sub>	B-10	Q-169	СН3	B-4	Q-169	Cyclohexyl	B-17
Q-2	CH <sub>3</sub>	B-10	Q-2	СН3	B-4	Q-2	C <sub>2</sub> H <sub>5</sub>	B-17
Q-16	CH <sub>3</sub>	B=10	_Q-16	CH <sub>3</sub>	B-4	Q-16	C <sub>2</sub> H <sub>5</sub>	B-17
Q-24	CH <sub>3</sub>	B-10	Q-24	СН3	B-4	Q-24	C <sub>2</sub> H <sub>5</sub>	B-17

	<del></del>							
Q-29	CH <sub>3</sub>	B-10	Q-29	CH <sub>3</sub>	B-4	Q-29	C <sub>2</sub> H <sub>5</sub>	B-17
Q-57	CH <sub>3</sub>	B-10	Q-57	CH <sub>3</sub>	B-4	Q-57	C <sub>2</sub> H <sub>5</sub>	B-17
Q-71	CH <sub>3</sub>	B-10	Q-71	CH <sub>3</sub>	B-4	Q-71	C <sub>2</sub> H <sub>5</sub>	B-17
Q-100	CH <sub>3</sub>	B-10	Q-100	CH <sub>3</sub>	B-4	Q-100	C <sub>2</sub> H <sub>5</sub>	B-17
Q-119	CH <sub>3</sub>	B-10	Q-119	CH <sub>3</sub>	B-4	Q-119	C <sub>2</sub> H <sub>5</sub>	B-17
Q-120	CH <sub>3</sub>	B-10	Q-120	СН3	B-4	Q-120	C <sub>2</sub> H <sub>5</sub>	B-17
Q-126	CH <sub>3</sub>	B-10	Q-126	CH <sub>3</sub>	B-4	Q-126	C <sub>2</sub> H <sub>5</sub>	B-17
Q-130	CH <sub>3</sub>	B-10	Q-130	СН3	B-4	Q-130	C <sub>2</sub> H <sub>5</sub>	B-17
Q-144	CH <sub>3</sub>	B-10	Q-144	СН3	B-4	Q-144	C <sub>2</sub> H <sub>5</sub>	B-17
Q-162	CH <sub>3</sub>	B-10	Q-162	CH <sub>3</sub>	B-4	Q-162	C <sub>2</sub> H <sub>5</sub>	B-17
Q-169	CH <sub>3</sub>	B-10	Q-169	CH <sub>3</sub>	B-4	Q-169	C <sub>2</sub> H <sub>5</sub>	B-17
Q-2	n-C <sub>6</sub> H <sub>13</sub>	B-10	Q-2	CH <sub>2</sub> CF <sub>3</sub>	B-4	Q-2	n-C <sub>3</sub> H <sub>7</sub>	B-6_
Q-16	n-C <sub>6</sub> H <sub>13</sub>	B-10	Q-16	CH <sub>2</sub> CF <sub>3</sub>	B-4	Q-16	n-C <sub>3</sub> H <sub>7</sub>	B-6
Q-24	n-C <sub>6</sub> H <sub>13</sub>	B-10	Q-24	CH <sub>2</sub> CF <sub>3</sub>	B-4	Q-24	n-C <sub>3</sub> H <sub>7</sub>	B-6
Q-29	n-C6H13	B-10	Q-29	CH <sub>2</sub> CF <sub>3</sub>	B-4	Q-29	n-C <sub>3</sub> H <sub>7</sub>	B-6
Q-57	n-C <sub>6</sub> H <sub>13</sub>	B-10	Q-57	CH <sub>2</sub> CF <sub>3</sub>	B-4	Q-57	n-C <sub>3</sub> H <sub>7</sub>	B-6_
Q-71	n-C <sub>6</sub> H <sub>13</sub>	B-10	Q-71	CH <sub>2</sub> CF <sub>3</sub>	B-4	Q-71	n-C <sub>3</sub> H <sub>7</sub>	B-6
Q-100	n-C <sub>6</sub> H <sub>13</sub>	B-10	Q-100	CH <sub>2</sub> CF <sub>3</sub>	B-4	Q-100	n-C3H7	B-6
Q-119	n-C <sub>6</sub> H <sub>13</sub>	B-10	Q-119	CH <sub>2</sub> CF <sub>3</sub>	B-4	Q-119	n-C3H7	B-6
Q-120	n-C <sub>6</sub> H <sub>13</sub>	B-10	Q-120	CH <sub>2</sub> CF <sub>3</sub>	B-4	Q-120	n-C <sub>3</sub> H <sub>7</sub>	B-6
Q-126	n-C <sub>6</sub> H <sub>13</sub>	B-10	Q-126	CH <sub>2</sub> CF <sub>3</sub>	B-4	Q-126	n-C <sub>3</sub> H <sub>7</sub>	B-6
Q-130	n-C <sub>6</sub> H <sub>13</sub>	B-10	Q-130	CH <sub>2</sub> CF <sub>3</sub>	B-4	Q-130	n-C3H7	B-6
Q-144	n-C <sub>6</sub> H <sub>13</sub>	B-10	Q-144	CH <sub>2</sub> CF <sub>3</sub>	B-4	Q-144	n-C <sub>3</sub> H <sub>7</sub>	B-6
Q-162	n-C <sub>6</sub> H <sub>13</sub>	B-10	Q-162	CH <sub>2</sub> CF <sub>3</sub>	B-4	Q-162	n-C <sub>3</sub> H <sub>7</sub>	B-6
Q-169	n-C <sub>6</sub> H <sub>13</sub>	B-10	Q-169	CH <sub>2</sub> CF <sub>3</sub>	B-4	Q-169	n-C <sub>3</sub> H <sub>7</sub>	B-6

Q	R <sup>1</sup>	R <sup>2</sup>	Q	R <sup>1</sup>	R <sup>2</sup>	Q	R <sup>1</sup>	R <sup>2</sup>
Q-2	C <sub>2</sub> H <sub>5</sub>	B-2	Q-2	C <sub>2</sub> H <sub>5</sub>	B-5	Q-2	C <sub>2</sub> H <sub>5</sub>	B-8
Q-16	C <sub>2</sub> H <sub>5</sub>	<b>B-</b> 2	Q-16	C <sub>2</sub> H <sub>5</sub>	B-5	Q-16	C <sub>2</sub> H <sub>5</sub>	B-8
Q-24	С <sub>2</sub> Н <sub>5</sub>	B-2	Q-24	C <sub>2</sub> H <sub>5</sub>	B-5	Q-24	C <sub>2</sub> H <sub>5</sub>	B-8
Q-29	C <sub>2</sub> H <sub>5</sub>	B-2	Q-29	C <sub>2</sub> H <sub>5</sub>	B-5	Q-29	C <sub>2</sub> H <sub>5</sub>	B-8
Q-57	C <sub>2</sub> H <sub>5</sub>	B-2	Q-57	C <sub>2</sub> H <sub>5</sub>	B-5	Q-57	C <sub>2</sub> H <sub>5</sub>	B-8
Q-71	C <sub>2</sub> H <sub>5</sub>	B-2	Q-71	C <sub>2</sub> H <sub>5</sub>	B-5	Q-71	C <sub>2</sub> H <sub>5</sub>	B-8
Q-100	C <sub>2</sub> H <sub>5</sub>	B-2	Q-100	C <sub>2</sub> H <sub>5</sub>	B-5	Q-100	C <sub>2</sub> H <sub>5</sub>	B-8

Q-119 C <sub>2</sub> H <sub>5</sub> B-2 Q-119 C <sub>2</sub> H <sub>5</sub> B-5 Q-119	C <sub>2</sub> H <sub>5</sub>	١
	<u> </u>	B-8
Q-120   C <sub>2</sub> H <sub>5</sub>   B-2   Q-120   C <sub>2</sub> H <sub>5</sub>   B-5   Q-120	C <sub>2</sub> H <sub>5</sub>	B-8
Q-126 C <sub>2</sub> H <sub>5</sub> B-2 Q-126 C <sub>2</sub> H <sub>5</sub> B-5 Q-126	C <sub>2</sub> H <sub>5</sub>	B-8
Q-130 C <sub>2</sub> H <sub>5</sub> B-2 Q-130 C <sub>2</sub> H <sub>5</sub> B-5 Q-130	C <sub>2</sub> H <sub>5</sub>	B-8
Q-144 C <sub>2</sub> H <sub>5</sub> B-2 Q-144 C <sub>2</sub> H <sub>5</sub> B-5 Q-144	C <sub>2</sub> H <sub>5</sub>	B-8
Q-162 C <sub>2</sub> H <sub>5</sub> B-2 Q-162 C <sub>2</sub> H <sub>5</sub> B-5 Q-162	C <sub>2</sub> H <sub>5</sub>	B-8
Q-169 C <sub>2</sub> H <sub>5</sub> B-2 Q-169 C <sub>2</sub> H <sub>5</sub> B-5 Q-169	C <sub>2</sub> H <sub>5</sub>	B-8
	Cyclopropyl	B-8
Q-16 C <sub>3</sub> H <sub>7</sub> B-2 Q-16 i-C <sub>3</sub> H <sub>7</sub> B-6 Q-16 C	Cyclopropyl	B-8
Q-24 C <sub>3</sub> H <sub>7</sub> B-2 Q-24 i-C <sub>3</sub> H <sub>7</sub> B-6 Q-24 C	Cyclopropyl	B-8
	Cyclopropyl	B-8
Q-57 C <sub>3</sub> H <sub>7</sub> B-2 Q-57 i-C <sub>3</sub> H <sub>7</sub> B-6 Q-57 C	Cyclopropyl	B-8
	Cyclopropyl	B-8
Q-144 C <sub>3</sub> H <sub>7</sub> B-2 Q-144 i-C <sub>3</sub> H <sub>7</sub> B-6 Q-144 C	Cyclopropyl	B-8
Q-162 C <sub>3</sub> H <sub>7</sub> B-2 Q-162 i-C <sub>3</sub> H <sub>7</sub> B-6 Q-162 C	Cyclopropyl	B-8
Q-169 C <sub>3</sub> H <sub>7</sub> B-2 Q-169 i-C <sub>3</sub> H <sub>7</sub> B-6 Q-169 C	Cyclopropyl	B-8
Q-2 C <sub>2</sub> H <sub>5</sub> B-3 Q-2 C <sub>2</sub> H <sub>5</sub> B-6 Q-2	C <sub>2</sub> H <sub>5</sub>	B-9
Q-16 C <sub>2</sub> H <sub>5</sub> B-3 Q-16 C <sub>2</sub> H <sub>5</sub> B-6 Q-16	C <sub>2</sub> H <sub>5</sub>	B-9
Q-24 C <sub>2</sub> H <sub>5</sub> B-3 Q-24 C <sub>2</sub> H <sub>5</sub> B-6 Q-24	C <sub>2</sub> H <sub>5</sub>	B-9
Q-29 C <sub>2</sub> H <sub>5</sub> B-3 Q-29 C <sub>2</sub> H <sub>5</sub> B-6 Q-29	C <sub>2</sub> H <sub>5</sub>	B-9
Q-57 C <sub>2</sub> H <sub>5</sub> B-3 Q-57 C <sub>2</sub> H <sub>5</sub> B-6 Q-57	C <sub>2</sub> H <sub>5</sub>	B-9
Q-71 C <sub>2</sub> H <sub>5</sub> B-3 Q-71 C <sub>2</sub> H <sub>5</sub> B-6 Q-71	C <sub>2</sub> H <sub>5</sub>	B-9
Q-100 C <sub>2</sub> H <sub>5</sub> B-3 Q-100 C <sub>2</sub> H <sub>5</sub> B-6 Q-100	C <sub>2</sub> H <sub>5</sub>	B-9
Q-119 C <sub>2</sub> H <sub>5</sub> B-3 Q-119 C <sub>2</sub> H <sub>5</sub> B-6 Q-119	C <sub>2</sub> H <sub>5</sub>	B-9
Q-120 C <sub>2</sub> H <sub>5</sub> B-3 Q-120 C <sub>2</sub> H <sub>5</sub> B-6 Q-120	C <sub>2</sub> H <sub>5</sub>	B-9
Q-126 C <sub>2</sub> H <sub>5</sub> B-3 Q-126 C <sub>2</sub> H <sub>5</sub> B-6 Q-126	C <sub>2</sub> H <sub>5</sub>	B-9
Q-130 C <sub>2</sub> H <sub>5</sub> B-3 Q-130 C <sub>2</sub> H <sub>5</sub> B-6 Q-130	C <sub>2</sub> H <sub>5</sub>	B-9
Q-144 C <sub>2</sub> H <sub>5</sub> B-3 Q-144 C <sub>2</sub> H <sub>5</sub> B-6 Q-144	C <sub>2</sub> H <sub>5</sub>	B-9
Q-162 C <sub>2</sub> H <sub>5</sub> B-3 Q-162 C <sub>2</sub> H <sub>5</sub> B-6 Q-162	C <sub>2</sub> H <sub>5</sub>	B-9

Q-169	C <sub>2</sub> H <sub>5</sub>	B-3	Q-169	C <sub>2</sub> H <sub>5</sub>	B-6	Q-169	C <sub>2</sub> H <sub>5</sub>	B-9
Q-2	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-3	Q-2	C <sub>2</sub> H <sub>5</sub>	B-7	Q-2	i-C <sub>3</sub> H <sub>7</sub>	B-9
Q-16	i-C <sub>3</sub> H <sub>7</sub>	B-3	Q-16	C <sub>2</sub> H <sub>5</sub>	B-7	Q-16	i-C <sub>3</sub> H <sub>7</sub>	B-9
Q-24	i-C <sub>3</sub> H <sub>7</sub>	B-3	Q-24	C <sub>2</sub> H <sub>5</sub>	B-7	Q-24	i-C <sub>3</sub> H <sub>7</sub>	B-9
Q-29	<i>i</i> -C <sub>3</sub> H <sub>7</sub>	B-3	Q-29	C <sub>2</sub> H <sub>5</sub>	B-7	Q-29	i-C <sub>3</sub> H <sub>7</sub>	B-9
Q-57	i-C <sub>3</sub> H <sub>7</sub>	B-3	Q-57	C <sub>2</sub> H <sub>5</sub>	B-7	Q-57	i-C <sub>3</sub> H <sub>7</sub>	B-9
Q-71	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-3	Q-71	C <sub>2</sub> H <sub>5</sub>	B-7	Q-71	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-9
Q-100	i-C <sub>3</sub> H <sub>7</sub>	B-3	Q-100	C <sub>2</sub> H <sub>5</sub>	B-7	Q-100	i-C <sub>3</sub> H <sub>7</sub>	B-9
Q-119	i-C <sub>3</sub> H <sub>7</sub>	B-3	Q-119	C <sub>2</sub> H <sub>5</sub>	B-7	Q-119	i-C <sub>3</sub> H <sub>7</sub>	B-9
Q-120	i-C3H7	B-3	Q-120	C <sub>2</sub> H <sub>5</sub>	B-7	Q-120	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-9
Q-126	i-C <sub>3</sub> H <sub>7</sub>	B-3	Q-126	C <sub>2</sub> H <sub>5</sub>	B-7	Q-126	i-C3H7	B-9
Q-130	i-C <sub>3</sub> H <sub>7</sub>	B-3	Q-130	С <sub>2</sub> Н <sub>5</sub>	B-7	Q-130	i-C3H7	B-9
Q-144	i-C3H7	B-3	Q-144	C <sub>2</sub> H <sub>5</sub>	B-7	Q-144	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-9
Q-162	i-C <sub>3</sub> H <sub>7</sub>	B-3	Q-162	C <sub>2</sub> H <sub>5</sub>	B-7	Q-162	i-C <sub>3</sub> H <sub>7</sub>	B-9
Q-169	i-C3H7	B-3	Q-169	C <sub>2</sub> H <sub>5</sub>	B-7	Q-169	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-9
Q-2	C <sub>2</sub> H <sub>5</sub>	B-4	Q-2	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-7	Q-2	C <sub>2</sub> H <sub>5</sub>	B-11
Q-16	С <sub>2</sub> Н <sub>5</sub>	B-4	Q-16	i-C <sub>3</sub> H <sub>7</sub>	B-7	Q-16	C <sub>2</sub> H <sub>5</sub>	B-11
Q-24	C <sub>2</sub> H <sub>5</sub>	B-4	Q-24	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-7	Q-24	C <sub>2</sub> H <sub>5</sub>	B-11
Q-29	C <sub>2</sub> H <sub>5</sub>	B-4	Q-29	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-7	Q-29	C <sub>2</sub> H <sub>5</sub>	B-11
Q-57	C <sub>2</sub> H <sub>5</sub>	B-4	Q-57	i-C <sub>3</sub> H <sub>7</sub>	B-7	Q-57	C <sub>2</sub> H <sub>5</sub>	B-11
Q-71	C <sub>2</sub> H <sub>5</sub>	B-4	Q-71	i-C <sub>3</sub> H <sub>7</sub>	B-7	Q-71	C <sub>2</sub> H <sub>5</sub>	B-11
Q-100	C <sub>2</sub> H <sub>5</sub>	B-4	Q-100	i-C <sub>3</sub> H <sub>7</sub>	B-7	Q-100	C <sub>2</sub> H <sub>5</sub>	B-11
Q-119	C <sub>2</sub> H <sub>5</sub>	B-4	Q-119	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-7	Q-119	C <sub>2</sub> H <sub>5</sub>	B-11
Q-120	C <sub>2</sub> H <sub>5</sub>	B-4	Q-120	i-C <sub>3</sub> H <sub>7</sub>	B-7	Q-120	C <sub>2</sub> H <sub>5</sub>	B-11
Q-126	C <sub>2</sub> H <sub>5</sub>	B-4	Q-126	i-C <sub>3</sub> H <sub>7</sub>	B-7	Q-126	C <sub>2</sub> H <sub>5</sub>	B-11
Q-130	C <sub>2</sub> H <sub>5</sub>	B-4	Q-130	i-C <sub>3</sub> H <sub>7</sub>	B-7	Q-130	C <sub>2</sub> H <sub>5</sub>	B-11
Q-144	C <sub>2</sub> H <sub>5</sub>	B-4	Q-144	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-7	Q-144	C <sub>2</sub> H <sub>5</sub>	B-11
Q-162	C <sub>2</sub> H <sub>5</sub>	B-4	Q-162	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-7	Q-162	C <sub>2</sub> H <sub>5</sub>	B-11
Q-169	C <sub>2</sub> H <sub>5</sub>	B-4	Q-169	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-7	Q-169	C <sub>2</sub> H <sub>5</sub>	B-11

Q	R1	R <sup>2</sup>	Q	R <sup>1</sup>	R <sup>2</sup>	Q	R <sup>1</sup>	R <sup>2</sup>
Q-2	Cyclopropyl	B-11	Q-2	C <sub>2</sub> H <sub>5</sub>	B-14	Q-2	i-C <sub>3</sub> H <sub>7</sub>	B-16
Q-16	Cyclopropyl	B-11	Q-16	-C <sub>2</sub> H <sub>5</sub> -	B-14	Q-16	i-C <sub>3</sub> H <sub>7</sub>	B-16
Q-24	Cyclopropyl	B-11	Q-24	C <sub>2</sub> H <sub>5</sub>	B-14	Q-24	i-C <sub>3</sub> H <sub>7</sub>	B-16

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Q-29	Cyclopropyl	B-11	Q-29	C <sub>2</sub> H <sub>5</sub>	B-14	Q-29	i-C <sub>3</sub> H <sub>7</sub>	B-16
Q-57	Cyclopropyl	B-11	Q-57	C <sub>2</sub> H <sub>5</sub>	B-14	Q-57	i-C <sub>3</sub> H <sub>7</sub>	B-16
Q-71	Cyclopropyl	B-11	Q-71	C <sub>2</sub> H <sub>5</sub>	B-14	Q-71	i-C <sub>3</sub> H <sub>7</sub>	B-16
Q-100	Cyclopropyl	B-11	Q-100	C <sub>2</sub> H <sub>5</sub>	B-14	Q-100	i-C <sub>3</sub> H <sub>7</sub>	B-16
Q-119	Cyclopropyl	B-11	Q-119	C <sub>2</sub> H <sub>5</sub>	B-14	Q-119	i-C <sub>3</sub> H <sub>7</sub>	B-16
Q-120	Cyclopropyi	B-11	Q-120	C <sub>2</sub> H <sub>5</sub>	B-14	Q-120	i-C <sub>3</sub> H <sub>7</sub>	B-16
Q-126	Cyclopropyl	B-11	Q-126	C <sub>2</sub> H <sub>5</sub>	B-14	Q-126	i-C <sub>3</sub> H <sub>7</sub>	B-16
Q-130	Cyclopropyl	B-11	Q-130	C <sub>2</sub> H <sub>5</sub>	B-14	Q-130	i-C <sub>3</sub> H <sub>7</sub>	B-16
Q-144	Cyclopropyl	B-11	Q-144	C <sub>2</sub> H <sub>5</sub>	B-14	Q-144	i-C <sub>3</sub> H <sub>7</sub>	B-16
Q-162	Cyclopropyl	B-11	Q-162	C <sub>2</sub> H <sub>5</sub>	B-14	Q-162	i-C <sub>3</sub> H <sub>7</sub>	B-16
Q-169	Cyclopropyl	B-11	Q-169	C <sub>2</sub> H <sub>5</sub>	B-14	Q-169	i-C <sub>3</sub> H <sub>7</sub>	B-16
Q-2	C <sub>2</sub> H <sub>5</sub>	B-12	Q-2	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-14	Q-2	t-C4H9	B-10
Q-16	C <sub>2</sub> H <sub>5</sub>	B-12	Q-16	i-C <sub>3</sub> H <sub>7</sub>	B-14	Q-16	t-C <sub>4</sub> H <sub>9</sub>	B-10
Q-24	C <sub>2</sub> H <sub>5</sub>	B-12	Q-24	i-C <sub>3</sub> H <sub>7</sub>	B-14	Q-24	t-C4H9	B-10
Q-29	C <sub>2</sub> H <sub>5</sub>	B-12	Q-29	i-C <sub>3</sub> H <sub>7</sub>	B-14	Q-29	t-C <sub>4</sub> H <sub>9</sub>	B-10
Q-57	C <sub>2</sub> H <sub>5</sub>	B-12	Q-57	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-14	Q-57	t-C4H9	B-10
Q-71	C <sub>2</sub> H <sub>5</sub>	B-12	Q-71	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-14	Q-71	t-C4H9	B-10
Q-100	C <sub>2</sub> H <sub>5</sub>	B-12	Q-100	i-C3H7	B-14	Q-100	t-C <sub>4</sub> H <sub>9</sub>	B-10
Q-119	C <sub>2</sub> H <sub>5</sub>	B-12	Q-119	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-14	Q-119	t-C <sub>4</sub> H <sub>9</sub>	B-10
Q-120	C <sub>2</sub> H <sub>5</sub>	B-12	Q-120	i-C3H7	B-14	Q-120	t-C4H9	B-10
Q-126	C <sub>2</sub> H <sub>5</sub>	B-12	Q-126	i-C3H7	B-14	Q-126	t-C4H9	B-10
Q-130	C <sub>2</sub> H <sub>5</sub>	B-12	Q-130	i-C3H7	B-14	Q-130	t-C4H9	B-10
Q-144	C <sub>2</sub> H <sub>5</sub>	B-12	Q-144	i-C3H7	B-14	Q-144	t-C4H9	B-10
Q-162	C <sub>2</sub> H <sub>5</sub>	B-12	Q-162	i-C <sub>3</sub> H <sub>7</sub>	B-14	Q-162	t-C4H9	B-10
Q-169	C <sub>2</sub> H <sub>5</sub>	B-12	Q-169	i-C <sub>3</sub> H <sub>7</sub>	B-14	Q-169	t-C4H9	B-10
Q-2	i-C <sub>3</sub> H <sub>7</sub>	B-12	Q-2	C <sub>2</sub> H <sub>5</sub>	B-15	Q-2	i-C <sub>4</sub> H <sub>9</sub>	B-10
Q-16	i-C <sub>3</sub> H <sub>7</sub>	B-12	Q-16	C <sub>2</sub> H <sub>5</sub>	B-15	Q-16	i-C <sub>4</sub> H <sub>9</sub>	B-10
Q-24	i-C <sub>3</sub> H <sub>7</sub>	B-12	Q-24	C <sub>2</sub> H <sub>5</sub>	B-15	Q-24	i-C <sub>4</sub> H <sub>9</sub>	B-10
Q-29	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-12	Q-29	C <sub>2</sub> H <sub>5</sub>	B-15	Q-29	<i>i</i> -C <sub>4</sub> H <sub>9</sub>	B-10
Q-57	i-C <sub>3</sub> H <sub>7</sub>	B-12	Q-57	C <sub>2</sub> H <sub>5</sub>	B-15	Q-57	i-C <sub>4</sub> H <sub>9</sub>	B-10
Q-71	i-C <sub>3</sub> H <sub>7</sub>	B-12	Q-71	C <sub>2</sub> H <sub>5</sub>	B-15	Q-71	i-C <sub>4</sub> H <sub>9</sub>	B-10
Q-100	i-C <sub>3</sub> H <sub>7</sub>	B-12	Q-100	С <sub>2</sub> Н <sub>5</sub>	B-15	Q-100	i-C4H9	B-10
Q-119	i-C <sub>3</sub> H <sub>7</sub>	B-12	Q-119	C <sub>2</sub> H <sub>5</sub>	B-15	Q-119	i-C <sub>4</sub> H <sub>9</sub>	B-10
Q-120	i-C <sub>3</sub> H <sub>7</sub>	B-12	Q-120	C <sub>2</sub> H <sub>5</sub>	B-15	Q-120	i-C4H9	B-10

	7							
Q-126	i-C <sub>3</sub> H <sub>7</sub>	B-12	Q-126	C <sub>2</sub> H <sub>5</sub>	B-15	Q-126	i-C <sub>4</sub> H <sub>9</sub>	B-10
Q-130	i-C <sub>3</sub> H <sub>7</sub>	B-12	Q-130	C <sub>2</sub> H <sub>5</sub>	B-15	Q-130	i-C <sub>4</sub> H <sub>9</sub>	B-10
Q-144	i-C <sub>3</sub> H <sub>7</sub>	B-12	Q-144	C <sub>2</sub> H <sub>5</sub>	B-15	Q-144	i-C <sub>4</sub> H <sub>9</sub>	B-10
Q-162	i-C <sub>3</sub> H <sub>7</sub>	B-12	Q-162	C <sub>2</sub> H <sub>5</sub>	B-15	Q-162	i-C <sub>4</sub> H <sub>9</sub>	B-10
Q-169	i-C <sub>3</sub> H <sub>7</sub>	B-12	Q-169	C <sub>2</sub> H <sub>5</sub>	B-15	Q-169	i-C <sub>4</sub> H <sub>9</sub>	B-10
Q-2	C <sub>2</sub> H <sub>5</sub>	B-13	Q-2	i-C <sub>3</sub> H <sub>7</sub>	B-15	Q-2	CH <sub>2</sub> CF <sub>3</sub>	B-10
Q-16	C <sub>2</sub> H <sub>5</sub>	B-13	Q-16	i-C <sub>3</sub> H <sub>7</sub>	B-15	Q-16	CH <sub>2</sub> CF <sub>3</sub>	B-10
Q-24	C <sub>2</sub> H <sub>5</sub>	B-13	Q-24	i-C <sub>3</sub> H <sub>7</sub>	B-15	Q-24	CH <sub>2</sub> CF <sub>3</sub>	B-10
Q-29	C <sub>2</sub> H <sub>5</sub>	B-13	Q-29	i-C <sub>3</sub> H <sub>7</sub>	B-15	Q-29	CH <sub>2</sub> CF <sub>3</sub>	B-10
Q-57	C <sub>2</sub> H <sub>5</sub>	B-13	Q-57	i-C <sub>3</sub> H <sub>7</sub>	B-15	Q-57	CH <sub>2</sub> CF <sub>3</sub>	B-10
Q-71	C <sub>2</sub> H <sub>5</sub>	B-13	Q-71	i-C <sub>3</sub> H <sub>7</sub>	B-15	Q-71	CH <sub>2</sub> CF <sub>3</sub>	B-10
Q-100	C <sub>2</sub> H <sub>5</sub>	B-13	Q-100	i-C <sub>3</sub> H <sub>7</sub>	B-15	Q-100	CH <sub>2</sub> CF <sub>3</sub>	B-10
Q-119	C <sub>2</sub> H <sub>5</sub>	B-13	Q-119	i-C <sub>3</sub> H <sub>7</sub>	B-15	Q-119	CH <sub>2</sub> CF <sub>3</sub>	B-10
Q-120	C <sub>2</sub> H <sub>5</sub>	B-13	Q-120	i-C <sub>3</sub> H <sub>7</sub>	B-15	Q-120	CH <sub>2</sub> CF <sub>3</sub>	B-10
Q-126	C <sub>2</sub> H <sub>5</sub>	B-13	Q-126	i-C <sub>3</sub> H <sub>7</sub>	B-15	Q-126	CH <sub>2</sub> CF <sub>3</sub>	B-10
Q-130	C <sub>2</sub> H <sub>5</sub>	B-13	Q-130	i-C3H7	B-15	Q-130	CH <sub>2</sub> CF <sub>3</sub>	B-10
Q-144	C <sub>2</sub> H <sub>5</sub>	B-13	Q-144	i-C <sub>3</sub> H <sub>7</sub>	B-15	Q-144	CH <sub>2</sub> CF <sub>3</sub>	B-10
Q-162	C <sub>2</sub> H <sub>5</sub>	B-13	Q-162	i-C <sub>3</sub> H <sub>7</sub>	B-15	Q-162	CH <sub>2</sub> CF <sub>3</sub>	B-10
Q-169	C <sub>2</sub> H <sub>5</sub>	B-13	Q-169	i-C <sub>3</sub> H <sub>7</sub>	B-15	Q-169	CH <sub>2</sub> CF <sub>3</sub>	B-10
Q-2	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-13	Q-2	C <sub>2</sub> H <sub>5</sub>	B-16	Q-2	n-C3H7	B-10
Q-16	i-C <sub>3</sub> H <sub>7</sub>	B-13	Q-16	C <sub>2</sub> H <sub>5</sub>	B-16	Q-16	n-C <sub>3</sub> H <sub>7</sub>	B-10
Q-24	i-C <sub>3</sub> H <sub>7</sub>	B-13	Q-24	C <sub>2</sub> H <sub>5</sub>	B-16	Q-24	n-C3H7	B-10
Q-29	i-C3H7	B-13	Q-29	C <sub>2</sub> H <sub>5</sub>	B-16	Q-29	n-C3H7	B-10
Q-57	i-C <sub>3</sub> H <sub>7</sub>	B-13	Q-57	C <sub>2</sub> H <sub>5</sub>	B-16	Q-57	n-C <sub>3</sub> H <sub>7</sub>	B-10
Q-71	i-C <sub>3</sub> H <sub>7</sub>	B-13	Q-71	C <sub>2</sub> H <sub>5</sub>	B-16	Q-71	n-C3H7	B-10
Q-100	i-C <sub>3</sub> H <sub>7</sub>	B-13	Q-100	C <sub>2</sub> H <sub>5</sub>	B-16	Q-100	n-C <sub>3</sub> H <sub>7</sub>	B-10
Q-119	i-C <sub>3</sub> H <sub>7</sub>	B-13	Q-119	C <sub>2</sub> H <sub>5</sub>	B-16	Q-119	n-C <sub>3</sub> H <sub>7</sub>	B-10
Q-120	i-C <sub>3</sub> H <sub>7</sub>	B-13	Q-120	C <sub>2</sub> H <sub>5</sub>	B-16	Q-120	n-C <sub>3</sub> H <sub>7</sub>	B-10
Q-126	i-C <sub>3</sub> H <sub>7</sub>	B-13	Q-126	C <sub>2</sub> H <sub>5</sub>	B-16	Q-126	n-C <sub>3</sub> H <sub>7</sub>	B-10
Q-130	<i>i-</i> C <sub>3</sub> H <sub>7</sub>	B-13	Q-130	C <sub>2</sub> H <sub>5</sub>	B-16	Q-130	n-C <sub>3</sub> H <sub>7</sub>	B-10
Q-144	i-C <sub>3</sub> H <sub>7</sub>	B-13	Q-144	C <sub>2</sub> H <sub>5</sub> _	B-16	Q-144	n-C <sub>3</sub> H <sub>7</sub>	B-10
Q-162	i-C3H7	B-13	Q-162	C <sub>2</sub> H <sub>5</sub>	B-16	Q-162	n-C <sub>3</sub> H <sub>7</sub>	B-10
Q-169	i-C <sub>3</sub> H <sub>7</sub>	B-13	Q-169	C <sub>2</sub> H <sub>5</sub>	B-16	Q-169	n-C <sub>3</sub> H <sub>7</sub>	B-10

TABLE 3

Q	X <sup>i</sup>	X <sup>2</sup>	X³	· R <sup>1</sup>	R <sup>2</sup>
<i>i-</i> Pr	s	0	0	i-Pr	4-F-Phenyl
i-Pr	0	S	0	<i>i</i> -Pr	4-F-Phenyl
i-Pr	0	0	S	í-Pr	4-F-Phenyl
i-Pr	NMe	0	0	<i>i-</i> Pr	4-F-Phenyl
i-Pr	0	NMe	0	i-Pr	4-F-Phenyl
i-Pr	0	0	NMe	<i>i</i> -Рт	4-F-Phenyl
i-Pr	NCN	0	0	i-Pr	4-F-Phenyl
i-Pr	0	NCN	0	i-Pr	4-F-Phenyl
i-Pr	0	0	NCN	i-Pr	4-F-Phenyl
i-Pr	S	S	0	i-Pr	4-F-Phenyl
i-Pr	S	0	S	i-Pr	4-F-Phenyl
i-Pr	0	S	S	i-Pr	4-F-Phenyl
i-Pr	S	S	S	i-Pr	4-F-Phenyl
c-Pr	S	0	0	i-Pr	4-F-Phenyl
c-Pr	0	S	0	i-Pr	4-F-Phenyl
с-Рт	0	0	S	i-Pr	4-F-Phenyl
c-Pr	NMe	0	0	i-Pr	4-F-Phenyl
c-Pr	0	NMe	0	i-Pr	4-F-Phenyl
c-Pr	0	0	NMe	i-Pr	4-F-Phenyl
c-Pr	NCN	0	0	<i>i</i> -Pr	4-F-Phenyl
c-Pr	0	NCN	0	i-Pr	4-F-Phenyl
c-Pr	0	0	NCN	i-Pr	4-F-Phenyl
с-Рт	S	S	0	i-Pr	4-F-Phenyl
c-Pr	S	0	s	i-Pr	4-F-Phenyl
с-Рт	0	s	s	i-Pr	4-F-Phenyl
c-Pr	s	S	s	i-Pr	4-F-Phenyl
i-Pr	0	0	0	i-Pr	2-Cl-Pyridin-5-yl
i-Pr	0	0	0	i-Pr	2-F-Pyridin-5-yl

i.Pr         O         O         i.Pr         2.Br-Pyridin-5-yl           i.Pr         O         O         i.Pr         2.Me-Pyridin-5-yl           i.Pr         O         O         i.Pr         2.CI-Pyrimidin-5-yl           i.Pr         O         O         i.Pr         2.CI-Pyrimidin-5-yl           i.Pr         O         O         i.Pr         2.Br-Pyrimidin-5-yl           i.Pr         O         O         i.Pr         2.Me-Pyrimidin-5-yl           i.Pr         O         O         i.Pr         2.Me-Pyrimidin-5-yl           i.Pr         O         O         i.Pr         2.CI-Thien-5-yl           i.Pr         O         O         i.Pr         2.CI-Thien-5-yl           i.Pr         O         O         i.Pr         2.Me-Thien-5-yl           i.Pr         O         O         i.Pr         2.Me-Thien-5-yl           i.Pr         O         O         i.Pr         Pyrimidin-5-yl           i.Pr         O         O         i.Pr         Pyrimidin-5-yl           i.Pr         O         O         i.Pr         2.CI-Thiadiazol-5-yl           i.Pr         O         O         i.Pr         2.CI-Thiadiazol-5-yl						
i-Pr         O         O         i-Pr         2-CF <sub>3</sub> -Pyridin-5-yl           i-Pr         O         O         i-Pr         2-CI-Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-F-Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-Mc-Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-CF <sub>3</sub> -Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-CI-Thien-5-yl           i-Pr         O         O         i-Pr         2-CI-Thien-5-yl           i-Pr         O         O         i-Pr         2-Mc-Thien-5-yl           i-Pr         O         O         i-Pr         Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-CI-Thien-5-yl           i-Pr         O         O         i-Pr         2-CI-Tyidain-5-yl           i-Pr         O         O         i-Pr         2-CI-Tyidain-5-yl	i-Pr	0	0	0	<i>i-</i> Pr	2-Br-Pyridin-5-yl
i-Pr         O         O         i-Pr         2-Cl-Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-F-Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-Br-Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-Me-Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-CF <sub>3</sub> -Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-CI-Thien-5-yl           i-Pr         O         O         i-Pr         2-Me-Thien-5-yl           i-Pr         O         O         i-Pr         Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-CI-Thien-5-yl           i-Pr         O         O         i-Pr         2-CI-Tyridain-5-yl           i-Pr         O         O         i-Pr         2-CI-Tyridain-5-yl           i-Pr         O         O         i-Pr         Thien-2-yl	<i>i-</i> Pr	0	0	0	i-Pr	2-Me-Pyridin-5-yl
i-Pr         O         O         i-Pr         2-F-Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-Br-Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-Me-Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-CF <sub>3</sub> -Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-CF <sub>3</sub> -Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-CF <sub>3</sub> -Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-Me-Thien-5-yl           i-Pr         O         O         i-Pr         2-Me-Thien-5-yl           i-Pr         O         O         i-Pr         Thien-2-yl           i-Pr         O         O         i-Pr         2-CL-Pyridain-5-yl           i-Pr         O         O         i-Pr         Thien-2-yl           i-Pr         O         O         i-Pr         Thien-2-yl      <	<i>i-</i> Pr	0	0	0	i-Pr	2-CF <sub>3</sub> -Pyridin-5-yl
i-Pr         O         O         i-Pr         2-Br-Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-Me-Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-CF <sub>3</sub> -Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-CI-Thien-5-yl           i-Pr         O         O         i-Pr         2-Me-Thien-5-yl           i-Pr         O         O         i-Pr         Thien-2-yl           i-Pr         O         O         i-Pr         2-CI-Tyridazin-5-yl           i-Pr         O         O         i-Pr         2-CI-Tyridazin-5-yl           i-Pr         O         O         i-Pr         2-CI-Tyridazin-5-yl           i-Pr         O         O         i-Pr         2-CI-Thiazol-5-yl           i-Pr         O         O         i-Pr         2-CI-Thiazol-5-yl           i-Pr         O         O         i-Pr         2-CI-Thiazol-5-yl <t< td=""><td>i-Pr</td><td>0</td><td>0</td><td>0</td><td>i-Pr</td><td>2-Cl-Pyrimidin-5-yl</td></t<>	i-Pr	0	0	0	i-Pr	2-Cl-Pyrimidin-5-yl
i-Pr         O         O         i-Pr         2-Me-Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-CF <sub>3</sub> -Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-CI-Thien-5-yl           i-Pr         O         O         i-Pr         2-Me-Thien-5-yl           i-Pr         O         O         i-Pr         Thien-2-yl           i-Pr         O         O         i-Pr         2-CI-Pyridazin-5-yl           i-Pr         O         O         i-Pr         2-CI-Pyridazin-5-yl           i-Pr         O         O         i-Pr         2-CI-Thiazol-5-yl           i-Pr         O         O         i-Pr         2-CI-Thiadia-05-yl           i-Pr         O         O         i-Pr         2-CI-Thiazol-5-yl           i-Pr         O         O         i-Pr         3-CI-Thiazol-5-yl           i-Pr         O         O         i-Pr         3-CI-Thiazol-5-yl	i-Pr	0	0	0	i-Pr	2-F-Pyrimidin-5-yl
i-Pr         O         O         i-Pr         2-CF <sub>3</sub> -Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-Cl-Thien-5-yl           i-Pr         O         O         i-Pr         2-Me-Thien-5-yl           i-Pr         O         O         i-Pr         2-Cl-Pyridazin-5-yl           i-Pr         O         O         i-Pr         2-Cl-Pyridazin-5-yl           i-Pr         O         O         i-Pr         2-Cl-Thiadian-5-yl           i-Pr         O         O         i-Pr         Thien-2-yl           i-Pr         O         O         i-Pr         Thien-2-yl           n-Pr         O         O         i-Pr         Thien-2-yl           i	i-Pr	0	0	0	i-Pr	2-Br-Pyrimidin-5-yl
i-Pr         O         O         i-Pr         2-Cl-Thien-5-yl           i-Pr         O         O         i-Pr         2-F-Thien-5-yl           i-Pr         O         O         i-Pr         2-Me-Thien-5-yl           i-Pr         O         O         i-Pr         2-Me-Thien-5-yl           i-Pr         O         O         i-Pr         2-Me-Thien-5-yl           i-Pr         O         O         i-Pr         Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-Cl-Pyridazin-5-yl           i-Pr         O         O         i-Pr         2-Cl-Pyridazin-5-yl           i-Pr         O         O         i-Pr         2-Cl-Thiadiazol-5-yl           i-Pr         O         O         i-Pr         Thien-2-yl           i-Pr         O         O         i-Pr         Thien-2-yl           n-Pr         O         O         i-Pr         Thien-2-yl           i-	i-Pr	0	0	0	i-Pr	2-Me-Pyrimidin-5-yl
i-Pr         O         O         i-Pr         2-F-Thien-5-yl           i-Pr         O         O         i-Pr         2-Me-Thien-5-yl           i-Pr         O         O         i-Pr         Thien-2-yl           i-Pr         O         O         i-Pr         Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-Cl-Pyridazin-5-yl           i-Pr         O         O         i-Pr         2-Cl-Indiazin-5-yl           i-Pr         O         O         i-Pr         2-Cl-Indiazin-5-yl           i-Pr         O         O         i-Pr         2-Cl-Thiazol-5-yl           i-Pr         O         O         i-Pr         2-Cl-Thiazol-5-yl           i-Pr         O         O         i-Pr         Thien-2-yl           i-Pr         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         i-Pr         Thien-2-yl           i-Hexyl         O         O         i-Pr         Thien-2-yl           i-Hexyl         O         O         i-Pr         Thien-2-yl           i-Pr         O         O         i-Pr         Thien-2-yl           i-Hexyl         O <td>i-Pr</td> <td>0</td> <td>0</td> <td>0</td> <td>i-Pr</td> <td>2-CF<sub>3</sub>-Pyrimidin-5-yl</td>	i-Pr	0	0	0	i-Pr	2-CF <sub>3</sub> -Pyrimidin-5-yl
i-Pr         O         O         i-Pr         2-Me-Thien-5-yl           i-Pr         O         O         i-Pr         Thien-2-yl           i-Pr         O         O         i-Pr         Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-Cl-Pyridazin-5-yl           i-Pr         O         O         i-Pr         2-Cl-1,3,4-Thiadiazol-5-yl           i-Pr         O         O         i-Pr         2-Cl-Thiazol-5-yl           i-Pr         O         O         i-Pr         2-Cl-Thiazol-5-yl           i-Pr         O         O         i-Pr         5-Cl-Thiazol-2-yl           i-Pr         O         O         i-Pr         Thien-2-yl           i-Pr         O         O         i-Pr         Thien-2-yl           n-Pr         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         Thien-2-yl           c-Pr         O         O         i-Pr         Thien-2-yl           c-Pr         O         O         i-Pr         Thien-2-yl           c-Hexyl         O <td>i-Pr</td> <td>0</td> <td>0</td> <td>0</td> <td>i-Pr</td> <td>2-Cl-Thien-5-yl</td>	i-Pr	0	0	0	i-Pr	2-Cl-Thien-5-yl
i-Pr         O         O         i-Pr         Thien-2-yl           i-Pr         O         O         i-Pr         Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-Cl-Pyridazin-5-yl           i-Pr         O         O         i-Pr         2-Cl-1,3,4-Thiadiazol-5-yl           i-Pr         O         O         i-Pr         2-Cl-Thiazol-5-yl           i-Pr         O         O         i-Pr         2-Cl-Thiazol-5-yl           i-Pr         O         O         i-Pr         5-Cl-Thiazol-2-yl           i-Pr         O         O         i-Pr         Thien-2-yl           e-Pr         O         O         i-Pr         Thien-2-yl           n-Pr         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         Thien-2-yl           c-Pr         O         O         i-Pr         Thien-2-yl           c-Pr         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           t-Pr         O </td <td>i-Pr</td> <td>0</td> <td>0</td> <td>0</td> <td>i-Pr</td> <td>2-F-Thien-5-yl</td>	i-Pr	0	0	0	i-Pr	2-F-Thien-5-yl
i-Pr         O         O         i-Pr         Pyrimidin-5-yl           i-Pr         O         O         i-Pr         2-Cl-Pyridazin-5-yl           i-Pr         O         O         i-Pr         2-Cl-1,3,4-Thiadiazol-5-yl           i-Pr         O         O         i-Pr         2-Cl-Thiazol-5-yl           i-Pr         O         O         i-Pr         2-Cl-Thiazol-5-yl           i-Pr         O         O         i-Pr         5-Cl-Thiazol-2-yl           c-Pr         O         O         i-Pr         Thien-2-yl           e-Pr         O         O         i-Pr         Thien-2-yl           m-Pr         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         Thien-2-yl           n-Pr         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu	i-Pr	0	0	0	i-Pr	2-Me-Thien-5-yl
i-Pr         O         O         i-Pr         2-Cl-Pyridazin-5-yl           i-Pr         O         O         i-Pr         2-Cl-1,3,4-Thiadiazol-5-yl           i-Pr         O         O         i-Pr         2-Cl-Thiazol-5-yl           i-Pr         O         O         i-Pr         2-Cl-Thiazol-5-yl           i-Pr         O         O         i-Pr         5-Cl-Thiazol-2-yl           c-Pr         O         O         i-Pr         Thien-2-yl           Et         O         O         i-Pr         Thien-2-yl           n-Pr         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         Thien-2-yl           r-Pr         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           b         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O<	i-Pr	0	0	0	i-Pr	Thien-2-yl
i-Pr         O         O         i-Pr         2-Cl-1,3,4-Thiadiazol-5-yl           i-Pr         O         O         i-Pr         2-CF <sub>3</sub> -1,3,4-Thiadiazol-5-yl           i-Pr         O         O         i-Pr         2-Cl-Thiazol-5-yl           i-Pr         O         O         i-Pr         5-Cl-Thiazol-2-yl           c-Pr         O         O         i-Pr         Thien-2-yl           Et         O         O         i-Pr         Thien-2-yl           n-Pr         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           c-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           n-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	i-Pr	0	0	0	i-Pτ	Pyrimidin-5-yl
i-Pr         O         O         i-Pr         2-CF <sub>3</sub> -1,3,4-Thiadiazol-5-yl           i-Pr         O         O         i-Pr         2-Cl-Thiazol-5-yl           i-Pr         O         O         i-Pr         5-Cl-Thiazol-2-yl           c-Pr         O         O         i-Pr         Thien-2-yl           Et         O         O         i-Pr         Thien-2-yl           n-Pr         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         Thien-2-yl           c-Pr         O         O         i-Pr         Thien-2-yl           c-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           e-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           m-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           c-Hexyl	<i>i-</i> Pr	0	0	0	i-Pr	2-Cl-Pyridazin-5-yl
i-Pr         O         O         i-Pr         2-Cl-Thiazol-5-yl           i-Pr         O         O         i-Pr         5-Cl-Thiazol-2-yl           c-Pr         O         O         i-Pr         Thien-2-yl           Et         O         O         i-Pr         Thien-2-yl           n-Pr         O         O         i-Pr         Thien-2-yl           Me         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           e-Tr         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	<i>i-</i> Pr	0	0	0	i-Pr	2-Cl-1,3,4-Thiadiazol-5-yl
i-Pr         O         O         i-Pr         5-Cl-Thiazol-2-yl           c-Pr         O         O         i-Pr         Thien-2-yl           Et         O         O         i-Pr         Thien-2-yl           n-Pr         O         O         i-Pr         Thien-2-yl           Me         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         Thien-2-yl           c-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           et         O         O         i-Pr         2-Cl-Pyridin-5-yl           n-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           Allyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	<i>i-</i> Pr	0	0	0	i-Pr	2-CF <sub>3</sub> -1,3,4-Thiadiazol-5-yl
c-Pr         O         O         O         i-Pr         Thien-2-yl           Et         O         O         O         i-Pr         Thien-2-yl           n-Pr         O         O         O         i-Pr         Thien-2-yl           Me         O         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         O         i-Pr         Thien-2-yl           Allyl         O         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         O         i-Pr         2-Cl-Pyridin-5-yl           et         O         O         O         i-Pr         2-Cl-Pyridin-5-yl           n-Pr         O         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         O         i-Pr         2-Cl-Pyridin-5-yl           Allyl         O         O         O         i-Pr         2-Cl-Pyridin-5-yl           c-Hexyl         O         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         O         i-Pr         2-Cl-Pyridin-5-yl	i-Pr	o	0	0	i-Pr	2-Cl-Thiazol-5-yl
Et         O         O         i-Pr         Thien-2-yl           n-Pr         O         O         i-Pr         Thien-2-yl           Me         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         i-Pr         Thien-2-yl           Allyl         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           c-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Et         O         O         i-Pr         2-Cl-Pyridin-5-yl           n-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Me         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           Allyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	i-Pr	0	0	0	i-Pr	5-Cl-Thiazol-2-yl
n-Pr         O         O         i-Pr         Thien-2-yl           Me         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         i-Pr         Thien-2-yl           Allyl         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         Thien-2-yl           c-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Et         O         O         i-Pr         2-Cl-Pyridin-5-yl           n-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Me         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           Allyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	c-Pr	0	0	0	i-Pr	Thien-2-yl
Me         O         O         i-Pr         Thien-2-yl           i-Bu         O         O         i-Pr         Thien-2-yl           Allyl         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         Thien-2-yl           c-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Et         O         O         i-Pr         2-Cl-Pyridin-5-yl           n-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Me         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           Allyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	Et	0	0	0	i-Pr	Thien-2-yl
i-Bu         O         O         i-Pr         Thien-2-yl           Allyl         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         Thien-2-yl           c-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Et         O         O         i-Pr         2-Cl-Pyridin-5-yl           n-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Me         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           Allyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	n-Pr	0	0	0	i-Pr	Thien-2-yl
Allyl         O         O         i-Pr         Thien-2-yl           c-Hexyl         O         O         i-Pr         Thien-2-yl           c-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Et         O         O         i-Pr         2-Cl-Pyridin-5-yl           n-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Me         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	Me	o	0	0	i-Pr	Thien-2-yl
c-Hexyl         O         O         i-Pr         Thien-2-yl           c-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Et         O         O         i-Pr         2-Cl-Pyridin-5-yl           n-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Me         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           Allyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	<i>i-</i> Bu	0	0	0	i-Pr	Thien-2-yl
c-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Et         O         O         i-Pr         2-Cl-Pyridin-5-yl           n-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Me         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           Allyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	Allyl	O	0	0	i-Pr	Thien-2-yl
Et         O         O         i-Pr         2-Cl-Pyridin-5-yl           n-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Me         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           Allyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	c-Hexyl	0	0	0	i-Pr	Thien-2-yl
n-Pr         O         O         i-Pr         2-Cl-Pyridin-5-yl           Me         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           Allyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	c-Pr	0	0	0	i-Pr	2-Cl-Pyridin-5-yl
Me         O         O         i-Pr         2-Cl-Pyridin-5-yl           i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           Allyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	Et	0	0	O	i-Pr	2-Cl-Pyridin-5-yl
i-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl           Allyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	n-Pr	0	O	0	i-Pr	2-Cl-Pyridin-5-yl
Allyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	Me	0	0	0	i-Pr	2-Cl-Pyridin-5-yl
c-Hexyl         O         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         O         i-Pr         2-Cl-Pyridin-5-yl	i-Bu	0	0	O	i-Pr	2-Cl-Pyridin-5-yl
c-Hexyl         O         O         i-Pr         2-Cl-Pyridin-5-yl           s-Bu         O         O         i-Pr         2-Cl-Pyridin-5-yl	Aliyi	0	0	0	i-Pr	2-Cl-Pyridin-5-yl
323		0	0	0	i-Pr	2-Cl-Pyridin-5-yl
s-Bu O O O i-Pr Thien-2-yl	s-Bu	0	0		i-Pr	2-Cl-Pyridin-5-yl
	s-Bu	0	0	0	<i>i</i> -Pr	Thien-2-yl

## Formulation/Utility

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Compounds of this invention will generally be used as a formulation or composition with an agriculturally suitable carrier comprising at least one of a liquid diluent, a solid diluent or a surfactant. The formulation or composition ingredients are selected to be consistent with the physical properties of the active ingredient, mode of application and environmental factors such as soil type, moisture and temperature. Useful formulations include liquids such as solutions (including emulsifiable concentrates), suspensions, emulsions (including microemulsions and/or suspoemulsions) and the like which optionally can be thickened into gels. Useful formulations further include solids such as dusts, powders, granules, pellets, tablets, films, and the like which can be water-dispersible ("wettable") or water-soluble. Active ingredient can be (micro)encapsulated and further formed into a suspension or solid formulation; alternatively the entire formulation of active ingredient can be encapsulated (or "overcoated"). Encapsulation can control or delay release of the active ingredient. Sprayable formulations can be extended in suitable media and used at spray volumes from about one to several hundred liters per hectare. High-strength compositions are primarily used as intermediates for further formulation.

The formulations will typically contain effective amounts of active ingredient, diluent and surfactant within the following approximate ranges which add up to 100 percent by weight.

	Weight Percent			
	Active Ingredient	Diluent	Surfactant	_
Water-Dispersible and Water-soluble Granules, Tablets and Powders.	5–90	0 <del>-94</del>	1–15	
Suspensions, Emulsions, Solutions (including Emulsifiable Concentrates)	5–50	40-95	0–15	
Dusts Granules and Pellets	1–25 0.01–99	70–99 5–99.99	0–5 0–15	
High Strength Compositions	90–99	0–10	0–2	

Typical solid diluents are described in Watkins, et al., Handbook of Insecticide Dust Diluents and Carriers, 2nd Ed., Dorland Books, Caldwell, New Jersey. Typical liquid diluents are described in Marsden, Solvents Guide, 2nd Ed., Interscience, New York, 1950. McCutcheon's Detergents and Emulsifiers Annual, Allured Publ. Corp., Ridgewood, New Jersey, as well as Sisely and Wood, Encyclopedia of Surface Active Agents, Chemical Publ. Co., Inc., New York, 1964, list surfactants and recommended uses. All formulations can

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contain minor amounts of additives to reduce foam, caking, corrosion, microbiological growth and the like, or thickeners to increase viscosity.

Surfactants include, for example, polyethoxylated alcohols, polyethoxylated alkylphenols, polyethoxylated sorbitan fatty acid esters, dialkyl sulfosuccinates, alkyl sulfates, alkylbenzene sulfonates, organosilicones, *N*,*N*-dialkyltaurates, lignin sulfonates, naphthalene sulfonate formaldehyde condensates, polycarboxylates, and polyoxyethylene/polyoxypropylene block copolymers. Solid diluents include, for example, clays such as bentonite, montmorillonite, attapulgite and kaolin, starch, sugar, silica, talc, diatomaceous earth, urea, calcium carbonate, sodium carbonate and bicarbonate, and sodium sulfate. Liquid diluents include, for example, water, *N*,*N*-dimethylformamide, dimethyl sulfoxide, *N*-alkylpyrrolidone, ethylene glycol, polypropylene glycol, paraffins, alkylbenzenes, alkylnaphthalenes, oils of olive, castor, linseed, tung, sesame, corn, peanut, cotton-seed, soybean, rape-seed and coconut, fatty acid esters, ketones such as cyclohexanone, 2-heptanone, isophorone and 4-hydroxy-4-methyl-2-pentanone, and alcohols such as methanol, cyclohexanol, decanol and tetrahydrofurfuryl alcohol.

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Solutions, including emulsifiable concentrates, can be prepared by simply mixing the ingredients. Dusts and powders can be prepared by blending and, usually, grinding as in a hammer mill or fluid-energy mill. Suspensions are usually prepared by wet-milling; see, for example, U.S. 3,060,084. Granules and pellets can be prepared by spraying the active material upon preformed granular carriers or by agglomeration techniques. See Browning, "Agglomeration", Chemical Engineering, December 4, 1967, pp 147-48, Perry's Chemical Engineer's Handbook, 4th Ed., McGraw-Hill, New York, 1963, pages 8-57 and following, and WO 91/13546. Pellets can be prepared as described in U.S. 4,172,714. Water-dispersible and water-soluble granules can be prepared as taught in U.S. 4,144,050, U.S. 3,920,442 and DE 3,246,493. Tablets can be prepared as taught in U.S. 5,180,587, U.S. 5,232,701 and U.S. 5,208,030. Films can be prepared as taught in GB 2,095,558 and U.S. 3,299,566.

For further information regarding the art of formulation, see U.S. 3,235,361, Col. 6, line 16 through Col. 7, line 19 and Examples 10-41; U.S. 3,309,192, Col. 5, line 43 through Col. 7, line 62 and Examples 8, 12, 15, 39, 41, 52, 53, 58, 132, 138-140, 162-164, 166, 167 and 169-182; U.S. 2,891,855, Col. 3, line 66 through Col. 5, line 17 and Examples 1-4; Klingman, Weed Control as a Science, John Wiley and Sons, Inc., New York, 1961, pp 81-96; and Hance et al., Weed Control Handbook, 8th Ed., Blackwell Scientific Publications, Oxford, 1989.

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In the following Examples, all percentages are by weight and all formulations are prepared in conventional ways. Compound numbers refer to compounds in Index Tables A-D below.

	Example A	
5	High Strength Concentrate	
	Compound 2	98.5%
	silica aerogel	0.5%
	synthetic amorphous fine silica	1.0%.
	Example B	
10	Wettable Powder	
	Compound 2	65.0%
	dodecylphenol polyethylene glycol ether	2.0%
	sodium ligninsulfonate	4.0%
	sodium silicoaluminate	6.0%
15	montmorillonite (calcined)	23.0%.
	Example C	
	<u>Granule</u>	
	Compound 2	10.0%
	attapulgite granules (low volatile matter,	
20	0.71/0.30 mm; U.S.S. No. 25-50 sieves)	90.0%.
	Example D	
	Extruded Pellet	
	Compound 2	25.0%
	anhydrous sodium sulfate	10.0%
25	crude calcium ligninsulfonate	5.0%
	sodium alkylnaphthalenesulfonate	1.0%
	calcium/magnesium bentonite	59.0%.

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Test results indicate that the compounds of the present invention are highly active preemergent and postemergent herbicides or plant growth regulants. Many of them have utility for broad-spectrum pre- and/or postemergence weed control in areas where complete control of all vegetation is desired such as around fuel storage tanks, industrial storage areas, parking lots, drive-in theaters, air fields, river banks, irrigation and other waterways, around billboards and highway and railroad structures. Some of the compounds are useful for the control of selected grass and broadleaf weeds with tolerance to important agronomic crops which include but are not limited to alfalfa, barley, cotton, wheat, rape, sugar beets, corn (maize), sorghum, soybeans, rice, oats, peanuts, vegetables, tomato, potato, perennial

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plantation crops including coffee, cocoa, oil palm, rubber, sugarcane, citrus, grapes, fruit trees, nut trees, banana, plantain, pineapple, hops, tea and forests such as eucalyptus and conifers (e.g., loblolly pine), and turf species (e.g., Kentucky bluegrass, St. Augustine grass, Kentucky fescue and Bermuda grass). Those skilled in the art will appreciate that not all compounds are equally effective against all weeds. Alternatively, the subject compounds are useful to modify plant growth.

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A herbicidally effective amount of the compounds of this invention is determined by a number of factors. These factors include: formulation selected, method of application, amount and type of vegetation present, growing conditions, etc. In general, a herbicidally effective amount of compounds of this invention is 0.001 to 20 kg/ha with a preferred range of 0.004 to 1.0 kg/ha. One skilled in the art can easily determine the herbicidally effective amount necessary for the desired level of weed control.

Compounds of this invention can be used alone or in combination with other commercial herbicides, insecticides or fungicides. Compounds of this invention can also be 15 used in combination with commercial herbicide safeners such as benoxacor, dichlormid and furilazole to increase safety to certain crops. A mixture of one or more of the following herbicides with a compound of this invention may be particularly useful for weed control: acetochlor, acifluorfen and its sodium salt, aclonifen, acrolein (2-propenal), alachlor, ametryn, amidosulfuron, amitrole, ammonium sulfamate, anilofos, asulam, atrazine, 20 azafenidin, azimsulfuron, benazolin, benazolin-ethyl, benfluralin, benfuresate, bensulfuron-methyl, bensulide, bentazone, bifenox, bispyribac and its sodium salt, bromacil, bromoxynil, bromoxynil octanoate, butachlor, butralin, butroxydim (ICIA0500), butylate, caloxydim (BAS 620H), carfentrazone-ethyl, chlomethoxyfen, chloramben, chlorbromuron, chloridazon, chlorimuron-ethyl, chlornitrofen, chlorotoluron, chlorpropham, chlorsulfuron, chlorthal-dimethyl, cinmethylin, cinosulfuron, clethodim, clomazone, clopyralid, 25 clopyralid-olamine, cyanazine, cycloate, cyclosulfamuron, 2.4-D and its butotyl, butyl, isoctyl and isopropyl esters and its dimethylammonium, diolamine and trolamine salts, daimuron, dalapon, dalapon-sodium, dazomet, 2.4-DB and its dimethylammonium, potassium and sodium salts, desmedipham, desmetryn, dicamba and its diglycolammonium, dimethylammonium, potassium and sodium salts, dichlobenil, dichlorprop, diclofop-methyl, 30 2-[4.5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-methyl-3pyridinecarboxylic acid (AC 263,222), difenzoquat metilsulfate, diflufenican, dimepiperate, dimethenamid, dimethylarsinic acid and its sodium salt, dinitramine, diphenamid, diquat dibromide, dithiopyr, diuron, DNOC, endothal, EPTC, esprocarb, ethalfluralin, ethametsulfuron-methyl, ethofumesate, ethoxysulfuron, fenoxaprop-ethyl, 35 fenoxaprop-P-ethyl, fenuron, fenuron-TCA, flamprop-methyl, flamprop-M-isopropyl,

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flamprop-M-methyl, flazasulfuron, fluazifop-butyl, fluazifop-P-butyl, fluchloralin, flufenacet, flumetsulam, flumiclorac-pentyl, flumioxazin, fluometuron, fluoroglycofen-ethyl, flupoxam, flupyrsulfuron-methyl and its sodium salt, fluridone, flurochloridone, fluroxypyr, fluthiacet-methyl, fomesafen, fosamine-ammonium, glufosinate, glufosinate-ammonium, 5 glyphosate, glyphosate-isopropylammonium, glyphosate-sesquisodium, glyphosate-trimesium, halosulfuron-methyl, haloxyfop-etotyl, haloxyfop-methyl, hexazinone, imazamethabenz-methyl, imazamox, imazapyr, imazaquin, imazaquin-ammonium, imazethapyr, imazethapyr-ammonium, imazosulfuron, ioxynil, ioxynil octanoate, ioxynil-sodium, isoproturon, isoxaben, isoxaflutole, lactofen, lenacil, linuron, maleic hydrazide, MCPA and its dimethylammonium, potassium and 10 sodium salts, MCPA-isoctyl, mecoprop, mecoprop-P, mefenacet, mefluidide, metam-sodium, methabenzthiazuron, methylarsonic acid and its calcium, monoammonium, monosodium and disodium salts, methyl [[[1-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2nitrophenyl]-2-methoxyethylidene]amino]oxy]acetate (AKH-7088), methyl 5-[[[[(4,6dimethyl-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-1-(2-pyridinyl)-1H-pyrazole-4-15 carboxylate (NC-330), metobenzuron, metolachlor, metosulam, metoxuron, metribuzin, metsulfuron-methyl, molinate, monolinuron, napropamide, naptalam, neburon, nicosulfuron, norflurazon, oryzalin, oxadiazon, oxasulfuron, oxyfluorfen, paraquat dichloride, pebulate, pendimethalin, pentoxazone (KPP-314), perfluidone, phenmedipham, picloram, 20 picloram-potassium, pretilachlor, primisulfuron-methyl, prometon, prometryn, propachlor, propanil, propaquizafop, propazine, propham, propyzamide, prosulfuron, pyrazolynate, pyrazosulfuron-ethyl, pyridate, pyriminobac-methyl, pyrithiobac, pyrithiobac-sodium, quinclorac, quizalofop-ethyl, quizalofop-P-ethyl, quizalofop-P-tefuryl, rimsulfuron, sethoxydim, siduron, simazine, sulcotrione (ICIA0051), sulfentrazone, sulfometuron-methyl, TCA, TCA-sodium, tebuthiuron, terbacil, terbuthylazine, terbutryn, thenylchlor, 25 thiafluamide (BAY 11390), thifensulfuron-methyl, thiobencarb, tralkoxydim, tri-allate, triasulfuron, triaziflam, tribenuron-methyl, triclopyr, triclopyr-butotyl, triclopyr-triethylammonium, tridiphane, trifluralin, triflusulfuron-methyl, and vernolate.

In certain instances, combinations with other herbicides having a similar spectrum of control but a different mode of action will be particularly advantageous for preventing the development of resistant weeds. Certain combinations of compounds of this invention with other herbicides may provide synergistic herbicidal effects on weeds or may provide enhanced crop safety.

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Preferred for better control of undesired vegetation in corn (e.g., lower use rate, broader spectrum of weeds controlled, or enhanced crop safety) or for preventing the development of resistant weeds in corn are mixtures of a compound of this invention with

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one or more of the herbicides selected from the group rimsulfuron, nicosulfuron, thifensulfuron, prosulfuron, halosulfuron, naphthalic anhydride, flurazole, dichlormid, fenchlorazole ethyl, naphthalic anhydride, MG-191 (2-dichloromethyl)-2-methyl-1,3-dioxolane), dicyclonon, benoxacor, cyometrinil, furilazole, oxabetrinil, cloquintocet mexyl, fluxofenim, fenclorim, menfenpyr diethyl, and R-29148 (3-(dichloroacetyl)-2,2,5-trimethyloxazolidine).

Specifically preferred mixtures for use in corn are selected from the group consisting of:

a) Compound 113 (Index Table C, mixture partner A, generally applied at a rate of 10 to 1000 g/ha, preferably applied at a rate of 50 to 500 g/ha) in combination with:

Combination	
<u>Number</u>	Mixture partner B
1	rimsulfuron
2	nicosulfuron
3	dichlormid
4	benoxacor
5	naphthalic anhydride
6	rimsulfuron (B1) in combination with dichlormid (B2)
7	nicosulfuron (B3) in combination with dichlormid (B4)

Combination 1 is generally used in a ratio of A to B of 3:1 to 50:1, preferably 5:1 to 30:1, with B being applied at a rate of 1 to 100 g/ha, preferably 5 to 50 g/ha. Combination 2 is generally used in a ratio of A to B of 2:1 to 20:1, preferably 4:1 to 10:1, with B being applied at a rate of 1 to 100 g/ha, preferably 20 to 70 g/ha. Combination 3 is generally used in a ratio of A to B of 1:10 to 10:1, preferably 1:2 to 2:1, with B being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha. Combination 4 is generally used in a ratio of A to B of 1:10 to 10:1, preferably 1:2 to 4:1, with B being applied at a rate of 1 to 1000 g/ha, preferably 20 to 500 g/ha. Combination 5 is generally used in a ratio of A to B of 1:500 to 50:1, preferably 1:20 to 10:1, with B being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha. Combination 6 is generally used in a ratio of A to B1 of 3:1 to 50:1, preferably 5:1 to 30:1, and a ratio of A to B2 of 1:10 to 10:1, preferably 1:2 to 2:1, with B1 being applied at a rate of 1 to 100 g/ha, preferably 5 to 50 g/ha, and B2 being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha. Combination 7 is generally used in a ratio of A to B3 of 2:1 to 20:1, preferably 4:1 to 10:1, and a ratio of A to B4 of 1:10 to 10:1, preferably

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1:2 to 2:1, with B3 being applied at a rate of 1 to 100 g/ha, preferably 20 to 70 g/ha, and B4 being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha.

b) Compound 131 (Index Table C, mixture partner A, generally applied at a rate of 10 to 1000 g/ha, preferably applied at a rate of 50 to 500 g/ha) in combination with:

Combination	
<u>Number</u>	Mixture partner B
1	10000
· <b>1</b>	rimsulfuron
2	nicosulfuron
3	dichlormid
4	benoxacor
5	naphthalic anhydride
6	rimsulfuron (B1) in combination with dichlormid (B2)
7	nicosulfuron (B3) in combination with dichlormid (B4)

Combination 1 is generally used in a ratio of A to B of 3:1 to 50:1, preferably 5:1 to 30:1, with B being applied at a rate of 1 to 100 g/ha, preferably 5 to 50 g/ha. Combination 2 is generally used in a ratio of A to B of 2:1 to 20:1, preferably 4:1 to 10:1, with B being applied at a rate of 1 to 100 g/ha, preferably 20 to 70 g/ha. Combination 3 is generally used in a ratio of A to B of 1:10 to 10:1, preferably 1:2 to 2:1, with B being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha. Combination 4 is generally used in a ratio of A to B of 1:10 to 10:1, preferably 1:2 to 4:1, with B being applied at a rate of 1 to 1000 g/ha, preferably 20 to 500 g/ha. Combination 5 is generally used in a ratio of A to B of 1:500 to 50:1, preferably 1:20 to 10:1, with B being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha. Combination 6 is generally used in a ratio of A to B1 of 3:1 to 50:1, preferably 5:1 to 30:1, and a ratio of A to B2 of 1:10 to 10:1, preferably 1:2 to 2:1, with B1 being applied at a rate of 1 to 100 g/ha, preferably 5 to 50 g/ha, and B2 being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha. Combination 7 is generally used in a ratio of A to B3 of 2:1 to 20:1, preferably 4:1 to 10:1, and a ratio of A to B4 of 1:10 to 10:1, preferably 1:2 to 2:1, with B3 being applied at a rate of 1 to 100 g/ha, preferably 20 to 70 g/ha, and B4 being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha.

c) Compound 242 (Index Table C, mixture partner A, generally applied at a rate of 10 to 1000 g/ha, preferably applied at a rate of 50 to 500 g/ha) in combination with:

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Combination	•
Number	Mixture partner B
1	Rimsulfuron
2	Nicosulfuron
3	Dichlormid
4	Benoxacor
5	naphthalic anhydride
6	rimsulfuron (B1) in combination with dichlormid (B2)
7	nicosulfuron (B3) in combination with dichlormid (B4)

Combination 1 is generally used in a ratio of A to B of 3:1 to 50:1, preferably 5:1 to 30:1, with B being applied at a rate of 1 to 100 g/ha, preferably 5 to 50 g/ha. Combination 2 is generally used in a ratio of A to B of 2:1 to 20:1, preferably 4:1 to 10:1, with B being applied at a rate of 1 to 100 g/ha, preferably 20 to 70 g/ha. Combination 3 is generally used in a ratio of A to B of 1:10 to 10:1, preferably 1:2 to 2:1, with B being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha. Combination 4 is generally used in a ratio of A to B of 1:10 to 10:1, preferably 1:2 to 4:1, with B being applied at a rate of 1 to 1000 g/ha, preferably 20 to 500 g/ha. Combination 5 is generally used in a ratio of A to B of 1:500 to 50:1, preferably 1:20 to 10:1, with B being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha. Combination 6 is generally used in a ratio of A to B1 of 3:1 to 50:1, preferably 5:1 to 30:1, and a ratio of A to B2 of 1:10 to 10:1, preferably 1:2 to 2:1, with B1 being applied at a rate of 1 to 100 g/ha, preferably 5 to 50 g/ha, and B2 being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha. Combination 7 is generally used in a ratio of A to B3 of 2:1 to 20:1, preferably 4:1 to 10:1, and a ratio of A to B4 of 1:10 to 10:1, preferably 1:2 to 2:1, with B3 being applied at a rate of 1 to 100 g/ha, preferably 20 to 70 g/ha, and B4 being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha.

d) Compound 146 (Index Table C, mixture partner A, generally applied at a rate of 10 to 1000 g/ha, preferably applied at a rate of 50 to 500 g/ha) in combination with:

Combination	
Number	Mixture partner B
1	Rimsulfuron

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2	Nicosulfuron
3	Dichlormid
4	Benoxacor
5	naphthalic anhydride
6	rimsulfuron (B1) in combination with dichlormid (B2)
7	nicosulfuron (B3) in combination with dichlormid (B4)

Combination 1 is generally used in a ratio of A to B of 3:1 to 50:1, preferably 5:1 to 30:1, with B being applied at a rate of 1 to 100 g/ha, preferably 5 to 50 g/ha. Combination 2 is generally used in a ratio of A to B of 2:1 to 20:1, preferably 4:1 to 10:1, with B being applied at a rate of 1 to 100 g/ha, preferably 20 to 70 g/ha. Combination 3 is generally used in a ratio of A to B of 1:10 to 10:1, preferably 1:2 to 2:1, with B being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha. Combination 4 is generally used in a ratio of A to B of 1:10 to 10:1, preferably 1:2 to 4:1, with B being applied at a rate of 1 to 1000 g/ha, preferably 20 to 500 g/ha. Combination 5 is generally used in a ratio of A to B of 1:500 to 50:1, preferably 1:20 to 10:1, with B being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha. Combination 6 is generally used in a ratio of A to B1 of 3:1 to 50:1, preferably 5:1 to 30:1, and a ratio of A to B2 of 1:10 to 10:1, preferably 1:2 to 2:1, with B1 being applied at a rate of 1 to 100 g/ha, preferably 5 to 50 g/ha, and B2 being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha. Combination 7 is generally used in a ratio of A to B3 of 2:1 to 20:1, preferably 4:1 to 10:1, and a ratio of A to B4 of 1:10 to 10:1, preferably 1:2 to 2:1, with B3 being applied at a rate of 1 to 100 g/ha, preferably 20 to 70 g/ha, and B4 being applied at a rate of 10 to 1000 g/ha, preferably 50 to 500 g/ha.

The following Tests demonstrate the control efficacy of the compounds of this invention against specific weeds. The weed control afforded by the compounds is not limited, however, to these species. See Index Tables A-D for compound descriptions. The abbreviation "dec" indicates that the compound appeared to decompose on melting. The abbreviation "Ex." stands for "Example" and is followed by a number indicating in which example the compound is prepared.

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$$R^{16}$$
 $R^{16}$ 
 $R^{2}$ 

Cmpd No.	R <sup>1</sup>	R <sup>2</sup>	R <sup>16</sup>	MP(°C)
1	Et	Et	4-OCH <sub>3</sub>	113-116
2	Et	Et	2,6-dimethyl	90-93
3	Et	Et	4-F	71-76
4	i-Pr	4-F-Phenyl	2-CH <sub>3</sub>	122-124
5	i-Pτ	4-F-Phenyl	4-OCH <sub>3</sub>	145-148
6	i-Pr	3, 6-dihydro-2 <i>H</i> -pyran	4-OCH <sub>3</sub>	98-100
7 (Ex.1)	i-Pr	4-F-Phenyl	2,4-di-Cl	57-60
8	i-Pr	4-F-Phenyl	2-C1	80-83
9	i-Pr	3, 6-dihydro-2 <i>H</i> -pyran	3,5-di-C1	137-139
10	i-Pr	3, 6-dihydro-2 <i>H</i> -pyran	2-CH3	143-145
11	Et	Et	3,5-di-Cl	oil*
12	Et	Et	4-OCF <sub>3</sub>	oil*
13	i-Pr	3, 6-dihydro-2 <i>H</i> -pyran	4-OCF <sub>3</sub>	oil*
14	<i>i</i> -Pr	4-F-Phenyl	2-OCF <sub>3</sub>	129-131
15	i-Pr	4-F-Phenyl	2-CF3	131-134
16	i-Pr	4-F-Phenyl	2, 5-di-Cl	120-122
17	i-Pr	4-F-Phenyl	1, 4-di-Me	154-156
18	i-Pr	4-F-Phenyl	2,6-di-Me	103-105
19	i-Pr	4-F-Phenyl	2,6-di-Cl	130-132
20	i-Pr	4-F-Phenyl	4-Cl-2-CF <sub>3</sub>	128-131
21	i-Pr	4-F-Phenyl	3-C1-2-Me	170-172
22	i-Pr	2,4-di-F-Phenyl	2,4-di-F	108-110
23	Et	с-Нех	2,4-di-F	oil*
24	i-Pr	2,4-di-F-Phenyl	2,4-di-Me	103-106
25	i-Pr	2,4-di-F-Phenyl	2-Me	85-89
26	Et.	c-Hex	2,4-di-Me	118-120
27	Et	c-Hex	2,6-di-Me	120-122

28	i-Pr	2,4-di-F-Phenyl	2,6-di-Me	129-131
29	Et	c-Hex	2-OMe	111-114
30	i-Pr	4-F-Phenyl	2-OMe	109-111
31	i-Pr	2,4-di-F-Phenyl	2-OMe	55-60
32	<i>i-</i> Pr	2,4-di-F-Phenyl	2,4-di-OMe	134-137
33	i-Pr	4-F-Phenyl	2,4-di-OMe	175-177
34	i-Pr	4-F-Phenyl	2-Et	94-97
35	i-Pr	4-F-Phenyl	2-Me-4-OMe	112-115
36	i-Pr	Phenyl	2-Me	148-150
37	c-Pr	4-F-Phenyl	2-Me	oil*
38	i-Pr	4-F-Phenyl	Н	oil*
39	i-Pr	4-CF <sub>3</sub> -Phenyl	2-Ме	85
40	i-Pr	4-Me-Phenyl	2-Me	128
. 41	i-Pr	4-Cl-Phenyl	2-Me	139-141
42	i-Pr	2,4-di-Cl-5-O-i-Pr-Phenyl	2-Me	68-70
43	<i>i-</i> Pr	4-F-Phenyl	2,4-di-Cl-5-O- <i>i</i> -Pr	148-150
44	i-Pr	4-NO <sub>2</sub> -Phenyl	2-Ме	148
. 45	i-Pr	2,4-di-F-Phenyl	2-Et	93-97
46 (Ex.2)	i-Pr	Phenyl	2,6-di-Me	146-148
47	i-Pr	4-Cl-Phenyl	2,6-di-Me	143-147
48	i-Pr	3,4-di-F-Phenyl	2-Me	124
49	i-Pr	4-OMe-Phenyl	2-Me	95
50	c-Pr	2,4-diF-Phenyl	2-Me	oil*
51	i-Pr	4-CN-Phenyl	2-Me	205
52	i-Pr	4-F-Phenyl	2-Et-6-Me	oil*
53	i-Pr	4-F-Phenyl	2-Cl-6-Me	oil*
54	i-Pr	4-Cl-Phenyl	2-C1-6-Me	oil*
55	i-Pr	Pyrrolidinyl	2,4-di-Cl	120-122
56	<i>i</i> -Pr	Pyrrolidinyl	2-OCF3	oil*
57	i-Pr	Pyrrolidinyl	2-CF <sub>3</sub>	120-122
58	i-Pr	Pyrrolidinyl	2, 5-di-Cl	139-140
59	i-Pr	Pyrrolidinyl	2-Me	103-106
60	<i>i-</i> Pr	4-F-Phenyl	2,4, 6-tri-Me	181-183
61	i-Pr	4-Cl-Phenyl	2,4, 6-tri-Me	121-122

62	i-Pr	4-F-Phenyl	2-Me-6-OMe	100-102
63	Et	c-Hex	2,4, 6-tri-Me	122-123
64	i-Pr	4-Cl-Phenyl	2- <i>i</i> -Pr, 6-Me	oil*
65	i-Pr	4-F-Phenyl	2-i-Pr, 6-Me	oil*
66	i-Pr	Phenyl	2- <i>i</i> -Pr, 6-Me	oil*
67	<i>i-</i> Pr	3,5-di-F	2-Me	120
68	i-Pr	2, 5-di-F	2-Me	98
69	i-Pr	Benzyl	2,6-di-Me	oil*
70	Et	Benzyl	2,6-di-Me	oil*
71	Et	Benzyl	2-Me	oil*
72	i-Pr	Benzyl	2-Me	oil*
73	i-Pr	Phenyl	2-OMe, 6-Me	132-134
74	i-Pr	2,4-di-F-Phenyl	2-OMe, 6-Me	107-109

<sup>\*</sup>see Index Table B for <sup>1</sup>H NMR data.

## INDEX TABLE B

Cmpd No.	<sup>1</sup> H NMR Data (CDCl <sub>3</sub> solution unless indicated otherwise) <sup>a</sup>
11	δ 1.25 (t, 6H), 3.40 (m, 4H), 6.96 (s, 1H), 7.55 (s, 1H), 8.59 (s, 1H).
12	δ 1.26 (t, 6H), 3.58 (m, 4H), 7.36 (d, 2H), 7.61 (d, 2H).
13	δ 1.33 (d, 6H) 2.3-2.4 (m, 2H), 3.86 (t, 2H), 4.2-4.3 (m, 2H), 4.38-4.45 (m, 1H), 5.83-5.90 7.38 (m, 2H), 7.60 (m, 2H).
23	δ 7.5-7.4 (m, 1H), 7.1 (t, 2H), 4.2-3.8 (m, 1H), 3.5-3.2 (m, 2H), 2.0-1.8 (m, 3H), 1.8-1.0 (m
37	δ 7.3-7.4 (m, 6H), 7.0-7.1 (t, 2H), 3.4 (m, 1H), 2.21 (s, 3H), 0.9 (m, 2H), 0.7-0.8 (m, 2H).
38	δ 7.4-7.6 (m, 4H), 7.3 (m, 1H), 7.0-7.2 (m, 2H), 4.7 (m, 1H), 1.2 (d, 6H).
50	δ 7.3-7.4 (m, 4H), 7.2 (d, 1H), 6.8-7.0 (q, 2H), 3.4 (m, 1H), 2.2 (s, 3H), 0.9 (d, 2H), 0.8 (d,
52	δ 7.2-7.4 (m, 3H), 7.0-7.2 (m, 4H), 4.7 (m, 1H), 2.3-2.4 (q, 2H), 2.1 (s, 3H), 1.2 (d, 6H), 1. (t, 3H).
53	δ 7.3 (m, 3H), 7.2 (m, 2H), 7.1 (t, 2H), 4.6-4.7 (m, 1H), 2.19 (s, 3H), 1.2 (d, 6H).
54	δ 7.3-7.4 (q, 4H), 7.2 ( m, 3H), 4.6-4.7 (m, 1H), 2.198 (s, 3H), 1.2 (d, 6H).
69	δ 7.4-7.1 (m, 8H), 4.68 (s, 2H), 4.5 (bs, 1H), 2.23 (s, 6H), 1.27 (d, 6H).
70	δ 7.4-7.1 (m, 8H), 4.74 (s, 2H), 3.6-3.4 (bs, 2H), 2.26 (s, 6H), 1.2 (m, 3H).
71	δ 7.5-7.3 (m, 9H), 4.74 (m, 2H), 3.6-3.4 (bm, 2H), 2.30 (s, 3H), 1.2 (bt, 3H).
72	δ 7.5-7.1 (m, 9H), 4.67 (s, 2H), 4.5 (bs, 1H), 2.27 (s, 3H), 1.28 (d, 6H).

a <sup>1</sup>H NMR data are in ppm downfield from tetramethylsilane. Couplings are designated by (s)-singlet, (d)-doublet, (t)-triplet, (q)-quartet, (m)-multiplet, (dd)-doublet of doublets, (dt)-doublet of triplets, (br s)-broad singlet.

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Cmpd.	Q	R <sup>1</sup>	R <sup>2</sup>	MP °C
75	1,3,5-Trimethylpyrazol-4-yl	i-Pr	4-F-Phenyl	152-154
76	1,3,5-Trimethylpyrazol-4-yl	i-Pr	2,4-diF-Phenyl	45-50
77	2-Thienylmethyl	Et	Et	oil*
78 (Ex.9)	Benzyl	i-Pr	4-F-Phenyl	95-96
79	Benzyl	i-Pr	2,4-diF-Phenyl	93-95
80	2-Thienylmethyl	i-Pr	4-F-Phenyl	oil*
81	2-Thienylmethyl	i-Pr	2-Dihydropyranyl	oil*
82	2-Thienylmethyl	Et	c-Hexyl	oil*
83	2-Thienylmethyl	Me	Phenyl	oil*
84	2-Methylbenzyl	Et	Et	oil*
85	2-Methylbenzyl	Me	Ph	oil*
86	2-Thienylmethyl	i-Pr	2,4-diF-Ph	77-80
87	2-Methylbenzyl	i-Pr	2,4-diF-Phenyl	oil*
88	2-Methylbenzyl	<i>i-</i> Pr	4-F-Phenyl	118-120
89	5-Tetrahydronaphthyl	Et	Et	oil*
90_	5-Tetrahydronaphthyl	i-Pr	4-F-Phenyl	oil*
91	n-Propyl	i-Pr	4-F-Phenyl	oil*
92	n-Propyl	i-Pr	Phenyl	oil*
93	Allyl	i-Pr	Phenyl	68-70
94_	Benzyi	i-Pr	Phenyl	90-94
95	1,3-Dimethyl-5-chloropyrazol-4-	i-Pr	4-F-Phenyl	109-112
·	yl			
96	1,3-Dimethyl-5-chloropyrazol-4-	i-Pr	2,4-diF-Phenyl	55-59
	yl			
97	1-Methyl-5-chloropyrazol-4-yl	i-Pr	4-F-Phenyl	55-60
98	1-Methylpyrazol-4-yl	i-Pr	4-F-Phenyl	145-146
99	2-Trifluoromethylcyclohexyl	i-Pr	4-F-Phenyl	oil*
100	3-Phenyl-5-methylisoxazol-4-yl	<i>i-</i> Pr	4-F-Phenyl	206-209

101	2 Falsal 5 most 1:1 4 - 1	2 P-	A E Dhamed	il*
101	3-Ethyl-5-methylisoxazol-4-yl	i-Pr	4-F-Phenyl	+
102	3-Ethyl-5-ethylisoxazol-4-yl	i-Pr	4-F-Phenyl	74-77
103	2-Thienylmethyl	i-Pr	Phenyl	90-95
104	2-Methoxybenzyi	i-Pr	Phenyl	115-117
105	Allyl	i-Pr	4-Cl-Phenyl	oil*
106	Benzyl	i-Pr	4-Cl-Phenyl	oil*
107	Ethyl	i-Pr_	4-F-Phenyl	78-81
108	Ethyl	i-Pr	4-Cl-Phenyl	83-86
109	Isopropyl	i-Pr	2,4-diF-Phenyl	82-85
110	c-Hexyl	i-Pr	4-F-Phenyl	128-131
111	c-Hexyl	i-Pr	4-Cl-Phenyl	126-130
112	c-Hexyl	i-Pr	Phenyl	136-139
113 (Ex.14)	Isopropyl	i-Pr	Phenyl	82-86
114	Isopropyl	i-Pr	4-Cl-Phenyl	76-80
115	c-Hexyl	i-Pr	2,4-diF-Phenyl	88-90
116	Ethyl	i-Pr	2,4-diF-Phenyl	75-77
117	Ethyl	i-Pτ	Phenyl	74-76
118	t-Bu	i-Pr	4-Cl-Phenyl	88-90
119	n-Pr	i-Pτ	4-Cl-Phenyl	oil*
120	1,3,5-Trimethylpyrazol-4-yl	i-Pr	Phenyl	48-52
121	1,3-Dimethyl-5-chloropyrazol-4-	i-Pr	Phenyl	54-56
122	yl I-Methyl-5-chloropyrazol-4-yl	i-Pr	Phenyl	94-97
123	1-Methylpyrazol-4-yl	i-Pr	Phenyl	111-112
124	1-Methylpyrazol-5-yl	i-Pr	4-F-Phenyl	52-59
	1, 4-Dimethylpyrazol-5-yl	i-Pr	4-F-Phenyl	45-49
125	3,5-di-Me-isoxazol-4-yl	i-Pt	2-Dihydropyranyl	oil*
	Allyl	c-Pr	2,4-F-Phenyl	oil*
127			4-F-Phenyl	oil*
128	CH <sub>2</sub> CO <sub>2</sub> Et	i-Pr		oil*
129	t-Bu	i-Pr	Phenyl	oil*
130	n-Pr	i-Pr	2,4-diF-Phenyl	<del> </del>
131 (Ex.13)	i-Pr	i-Pr	4-F-Phenyl	78-80
132	i-Pr	<i>i</i> -Pr	4-Me-Phenyl	68-71
133	α-Me-Benzyi	<i>i</i> -Pr	4-Cl-Phenyl	oil*

134				<del></del>	
136 (Ex.5)   2-Methylbenzyl   i-Pr   4-Cl-Phenyl   121-123     137 (Ex.7)   Methyl   i-Pr   4-Cl-Phenyl   121-123     138 (Ex.6)   Methyl   i-Pr   4-F-Phenyl   135-136     139   2-Methylallyl   i-Pr   4-F-Phenyl   0il*     140   2-Chlorobenzyl   i-Pr   4-F-Phenyl   0il*     141   2-Chlorobenzyl   i-Pr   Pyrrolidinyl   0il*     142   2-Methoxybenzyl   i-Pr   Pyrrolidinyl   0il*     143   2-Methoxybenzyl   i-Pr   2-Dihydropyranyl   0il*     144   2-Chlorobenzyl   i-Pr   2-Dihydropyranyl   0il*     145   2-Chlorobenzyl   i-Pr   c-Hexenyl   0il*     146 (Ex.3)   Allyl   i-Pr   4-F-Phenyl   0il*     147   Allyl   i-Pr   2-Dihydropyranyl   0il*     148   2-Chlorothyl   i-Pr   2-Dihydropyranyl   0il*     149   2-Chlorothyl   i-Pr   2-Dihydropyranyl   0il*     150   Allyl   Et   Pyrrolidinyl   0il*     151   Allyl   i-Pr   2-Dihydropyranyl   0il*     152   Benzyl   Et   Et   0il*     153   Benzyl   Me   Phenyl   0il*     154   Allyl   c-Pr   4-F-Phenyl   0il*     155   3,5-Dimethylisoxazol-4-yl   i-Pr   2-Dihydropyranyl   0il*     156   3,5-Dimethylisoxazol-4-yl   i-Pr   2-Dihydropyranyl   0il*     157   3,5-Dimethylisoxazol-4-yl   i-Pr   2-Dihydropyranyl   0il*     159   3,5-Dimethylisoxazol-4-yl   i-Pr   2-Dihydropyranyl   0il*     150   3,5-Dimethylisoxazol-4-yl   i-Pr   2-Dihydropyranyl   0il*     157   3,5-Dimethylisoxazol-4-yl   i-Pr   2-Dihydropyranyl   0il*     158   3,5-Dimethylisoxazol-4-yl   i-Pr   2-Dihydropyranyl   0il*     159   3,5-Dimethylisoxazol-4-yl   i-Pr   2-Dihydropyranyl   0il*     160   2-Dihydropyranyl   i-Pr   4-F-Phenyl   12-127     161   2-Me-c-Hex   i-Pr   4-F-Phenyl   0il*     162   2-Me-c-Hex   i-Pr   Phenyl   0il*     163   CF3CH2   i-Pr   4-F-Phenyl   12-124     164   H   i-Pr   4-F-Phenyl   55-60     165   i-Pr   i-Pr   Benzyl   0il*     166   i-Pr   Et   Benzyl   0il*	134	α-Me-Benzyl	<i>i</i> -Pr	4-F-Phenyl	oil*
137 (Ex.7)   Methyl   i-Pr   4-Cl-Phenyl   121-123     138 (Ex.6)   Methyl   i-Pr   4-F-Phenyl   135-136     139   2-Methylallyl   i-Pr   4-F-Phenyl   0il*     140   2-Chlorobenzyl   i-Pr   4-F-Phenyl   0il*     141   2-Chlorobenzyl   i-Pr   Pyrrolidinyl   0il*     142   2-Methoxybenzyl   i-Pr   Pyrrolidinyl   0il*     143   2-Methoxybenzyl   i-Pr   4-F-Phenyl   104-106     144   2-Chlorobenzyl   i-Pr   2-Dihydropyranyl   0il*     145   2-Chlorobenzyl   i-Pr   c-Hexenyl   0il*     146 (Ex.3)   Allyl   i-Pr   4-F-Phenyl   0il*     147   Allyl   i-Pr   2-Dihydropyranyl   0il*     148   2-Chloroethyl   i-Pr   2-Dihydropyranyl   0il*     149   2-Chloroethyl   i-Pr   2-Dihydropyranyl   0il*     150   Allyl   Ex   Pyrrolidinyl   0il*     151   Allyl   i-Pr   2-Dihydropyranyl   0il*     152   Benzyl   Ex   Ex   0il*     153   Benzyl   Ex   Ex   0il*     154   Allyl   c-Pr   4-F-Phenyl   0il*     155   3,5-Dimethylisoxazol-4-yl   i-Pr   2-4-diF-Phenyl   133-136     156   3,5-Dimethylisoxazol-4-yl   i-Pr   2-4-diF-Phenyl   175-178     157   3,5-Dimethylisoxazol-4-yl   i-Pr   2-4-diF-Phenyl   175-178     159   3,5-Dimethylisoxazol-4-yl   i-Pr   2-4-diF-Phenyl   175-178     159   3,5-Dimethylisoxazol-4-yl   i-Pr   2-4-diF-Phenyl   175-178     150   2-Be-c-Hex   i-Pr   4-F-Phenyl   0il*     161   2-Me-c-Hex   i-Pr   4-F-Phenyl   0il*     162   2-Me-c-Hex   i-Pr   Phenyl   0il*     163   CF3CH2   i-Pr   4-F-Phenyl   55-60     165   i-Pr   i-Pr   Benzyl   0il*	135	3,5-Diisopropylisoxazol-4-yl	<i>i</i> -Pr	4-F-Phenyl	oil*
138 (Ex.6)   Methyl   i-Pr   4-F-Phenyl   135-136     139   2-Methylallyl   i-Pr   4-F-Phenyl   oil*     140   2-Chlorobenzyl   i-Pr   4-F-Phenyl   oil*     141   2-Chlorobenzyl   i-Pr   Pyrrolidinyl   oil*     142   2-Methoxybenzyl   i-Pr   Pyrrolidinyl   oil*     143   2-Methoxybenzyl   i-Pr   4-F-Phenyl   104-106     144   2-Chlorobenzyl   i-Pr   2-Dihydropyranyl   oil*     145   2-Chlorobenzyl   i-Pr   2-Dihydropyranyl   oil*     146 (Ex.3)   Allyl   i-Pr   4-F-Phenyl   65-66     147   Allyl   i-Pr   2-Dihydropyranyl   oil*     148   2-Chloroethyl   i-Pr   2-Dihydropyranyl   oil*     149   2-Chloroethyl   i-Pr   2-Dihydropyranyl   oil*     150   Allyl   i-Pr   2-Dihydropyranyl   oil*     151   Allyl   i-Pr   2-A-diF-Phenyl   oil*     152   Benzyl   Et   Et   oil*     153   Benzyl   Me   Phenyl   oil*     154   Allyl   c-Pr   4-F-Phenyl   oil*     155   3,5-Dimethylisoxazol-4-yl   i-Pr   2-A-diF-Phenyl   133-136     156   3,5-Dimethylisoxazol-4-yl   i-Pr   2-A-diF-Phenyl   175-178     157   3,5-Dimethylisoxazol-4-yl   i-Pr   2-A-diF-Phenyl   175-178     158   3,5-Dimethylisoxazol-4-yl   i-Pr   2-A-diF-Phenyl   175-178     159   3,5-Dimethylisoxazol-4-yl   i-Pr   2-A-diF-Phenyl   124-127     160   2,5-Dichlorothiazol-4-yl   i-Pr   4-F-Phenyl   0il*     161   2-Me-c-Hex   i-Pr   4-F-Phenyl   oil*     162   2-Me-c-Hex   i-Pr   4-F-Phenyl   0il*     163   CF3CH2   i-Pr   4-F-Phenyl   0il*     166   i-Pr   Et   Benzyl   oil*	136 (Ex.5)	2-Methylbenzyl	i-Pr	4-Cl-Phenyi	oil*
139   2-Methylally    i-Pr   4-F-Pheny    oil*     140   2-Chlorobenzy    i-Pr   4-F-Pheny    oil*     141   2-Chlorobenzy    i-Pr   Pyrrolidiny    oil*     142   2-Methoxybenzy    i-Pr   Pyrrolidiny    oil*     143   2-Methoxybenzy    i-Pr   4-F-Pheny    104-106     144   2-Chlorobenzy    i-Pr   2-Dihydropyrany    oil*     145   2-Chlorobenzy    i-Pr   2-Dihydropyrany    oil*     146 (Ex.3)   Allyl   i-Pr   2-Dihydropyrany    oil*     148   2-Chloroethyl   i-Pr   2-Dihydropyrany    oil*     149   2-Chloroethyl   i-Pr   2-Dihydropyrany    oil*     150   Allyl   Et   Pyrrolidinyl   oil*     151   Allyl   i-Pr   2-Dihydropyranyl   oil*     152   Benzy    Et   Et   oil*     153   Benzy    Me   Phenyl   oil*     154   Allyl   c-Pr   4-F-Phenyl   oil*     155   3,5-Dimethylisoxazol-4-y    i-Pr   2,4-diF-Phenyl   133-136     156   3,5-Dimethylisoxazol-4-y    i-Pr   2,4-diF-Phenyl   oil*     158   3,5-Dimethylisoxhiazol-4-y    i-Pr   2,4-diF-Phenyl   175-178     159   3,5-Dimethylisoxhiazol-4-y    i-Pr   2,4-di-F-Phenyl   0il*     159   3,5-Dimethylisoxhiazol-4-y    i-Pr   2,4-di-F-Phenyl   158-161     159   3,5-Dimethylisoxhiazol-4-y    i-Pr   2,4-di-F-Phenyl   0il*     161   2-Me-c-Hex   i-Pr   4-F-Phenyl   0il*     162   2-Me-c-Hex   i-Pr   4-F-Phenyl   0il*     163   CF3CH2   i-Pr   4-F-Phenyl   0il*     164   H   i-Pr   4-F-Phenyl   0il*     165   i-Pr   i-Pr   Benzyl   0il*	137 (Ex.7)	Methyl	í-Pr	4-Cl-Phenyl	121-123
140   2-Chlorobenzyl   i-Pr   4-F-Phenyl   oil*     141   2-Chlorobenzyl   i-Pr   Pyrrolidinyl   oil*     142   2-Methoxybenzyl   i-Pr   Pyrrolidinyl   oil*     143   2-Methoxybenzyl   i-Pr   4-F-Phenyl   104-106     144   2-Chlorobenzyl   i-Pr   2-Dihydropyranyl   oil*     145   2-Chlorobenzyl   i-Pr   c-Hexenyl   oil*     146 (Ex.3)   Allyl   i-Pr   4-F-Phenyl   65-66     147   Allyl   i-Pr   2-Dihydropyranyl   oil*     148   2-Chloroethyl   i-Pr   2-Dihydropyranyl   oil*     149   2-Chloroethyl   i-Pr   2-Dihydropyranyl   oil*     150   Allyl   Et   Pyrrolidinyl   oil*     151   Allyl   i-Pr   2,4-diF-Phenyl   oil*     152   Benzyl   Et   Et   oil*     153   Benzyl   Me   Phenyl   oil*     154   Allyl   c-Pr   4-F-Phenyl   oil*     155   3,5-Dimethylisoxazol-4-yl   i-Pr   2,4-diF-Phenyl   133-136     156   3,5-Dimethylisoxazol-4-yl   i-Pr   2,4-diF-Phenyl   175-178     157   3,5-Dimethylisoxazol-4-yl   i-Pr   2,4-diF-Phenyl   175-178     158   3,5-Dimethylisoxazol-4-yl   i-Pr   2,4-diF-Phenyl   124-127     160   2,5-Dichlorothiazol-4-yl   i-Pr   2,4-diF-Phenyl   124-127     161   2-Me-c-Hex   i-Pr   4-F-Phenyl   oil*     162   2-Me-c-Hex   i-Pr   Phenyl   oil*     163   CF3CH2   i-Pr   4-F-Phenyl   122-124     164   H   i-Pr   4-F-Phenyl   55-60     165   i-Pr   i-Pr   Benzyl   oil*	138 (Ex.6)	Methyl	<i>i</i> -Pr	4-F-Phenyl	135-136
141         2-Chlorobenzyl         i-Pr         Pyrrolidinyl         oil*           142         2-Methoxybenzyl         i-Pr         Pyrrolidinyl         oil*           143         2-Methoxybenzyl         i-Pr         4-F-Phenyl         104-106           144         2-Chlorobenzyl         i-Pr         2-Dihydropyranyl         oil*           145         2-Chlorobenzyl         i-Pr         c-Hexenyl         oil*           146 (Ex.3)         Allyl         i-Pr         2-Dihydropyranyl         oil*           147         Allyl         i-Pr         2-Dihydropyranyl         oil*           148         2-Chloroethyl         i-Pr         2-Dihydropyranyl         oil*           149         2-Chloroethyl         i-Pr         2-Dihydropyranyl         oil*           150         Allyl         Et         Pyrrolidinyl         oil*           150         Allyl         Et         Pyrrolidinyl         oil*           151         Allyl         i-Pr         2,4-diF-Phenyl         oil*           152         Benzyl         Me         Phenyl         oil*           153         Benzyl         Me         Phenyl         oil*           154         Allyl	139	2-Methylallyl	і-Рт	4-F-Phenyl	oil*
142         2-Methoxybenzyl         i-Pr         Pyrrolidinyl         oil*           143         2-Methoxybenzyl         i-Pr         4-F-Phenyl         104-106           144         2-Chlorobenzyl         i-Pr         2-Dihydropyranyl         oil*           145         2-Chlorobenzyl         i-Pr         c-Hexenyl         oil*           146         (Ex.3)         Allyl         i-Pr         4-F-Phenyl         65-66           147         Allyl         i-Pr         2-Dihydropyranyl         oil*           148         2-Chloroethyl         i-Pr         2-Dihydropyranyl         oil*           149         2-Chloroethyl         i-Pr         2-Dihydropyranyl         oil*           150         Allyl         Et         Pyrrolidinyl         oil*           151         Allyl         i-Pr         2,4-diF-Phenyl         oil*           151         Allyl         i-Pr         2,4-diF-Phenyl         oil*           152         Benzyl         Me         Phenyl         oil*           153         Benzyl         Me         Phenyl         oil*           154         Allyl         c-Pr         4-F-Phenyl         oil*           155         3,5-Dim	140	2-Chlorobenzyi	i-Pr	4-F-Phenyl	oil*
143         2-Methoxybenzyl         i-Pr         4-F-Phenyl         104-106           144         2-Chlorobenzyl         i-Pr         2-Dihydropyranyl         oil*           145         2-Chlorobenzyl         i-Pr         c-Hexenyl         oil*           146 (Ex.3)         Allyl         i-Pr         d-F-Phenyl         65-66           147         Allyl         i-Pr         2-Dihydropyranyl         oil*           148         2-Chloroethyl         i-Pr         4-F-Phenyl         oil*           149         2-Chloroethyl         i-Pr         2-Dihydropyranyl         oil*           150         Allyl         Et         Pyrrolidinyl         oil*           151         Allyl         i-Pr         2,4-diF-Phenyl         oil*           152         Benzyl         Et         Et         cil*           153         Benzyl         Me         Phenyl         oil*           154         Allyl         c-Pr         4-F-Phenyl         oil*           155         3,5-Dimethylisoxazol-4-yl         i-Pr         2,4-diF-Phenyl         175-178           156         3,5-Dimethylisothiazol-4-yl         i-Pr         2,4-di-F-Phenyl         oil*           158	141	2-Chlorobenzyl	i-Pr	Pyrrolidinyl	oil*
144         2-Chlorobenzyl         i-Pr         2-Dihydropyranyl         oil*           145         2-Chlorobenzyl         i-Pr         c-Hexenyl         oil*           146 (Ex.3)         Allyl         i-Pr         4-F-Phenyl         65-66           147         Allyl         i-Pr         2-Dihydropyranyl         oil*           148         2-Chloroethyl         i-Pr         2-Dihydropyranyl         oil*           149         2-Chloroethyl         i-Pr         2-Dihydropyranyl         oil*           150         Allyl         Et         Pytrolidinyl         oil*           151         Allyl         i-Pr         2,4-diF-Phenyl         oil*           151         Allyl         i-Pr         2,4-diF-Phenyl         oil*           152         Benzyl         Me         Phenyl         oil*           153         Benzyl         Me         Phenyl         oil*           154         Allyl         c-Pr         4-F-Phenyl         oil*           155         3,5-Dimethylisoxazol-4-yl         i-Pr         2,4-diF-Phenyl         175-178           156         3,5-Dimethylisothiazol-4-yl         i-Pr         2,4-di-F-Phenyl         oil*           158	142	2-Methoxybenzyl	i-Pr	Pyrrolidinyl	oil*
145         2-Chlorobenzyl         i-Pr         c-Hexenyl         oil*           146 (Ex.3)         Allyl         i-Pr         4-F-Phenyl         65-66           147         Allyl         i-Pr         2-Dihydropyranyl         oil*           148         2-Chloroethyl         i-Pr         4-F-Phenyl         oil*           149         2-Chloroethyl         i-Pr         2-Dihydropyranyl         oil*           150         Allyl         Et         Pyrrolidinyl         oil*           151         Allyl         i-Pr         2,4-diF-Phenyl         oil*           152         Benzyl         Et         Et         oil*           153         Benzyl         Me         Phenyl         oil*           154         Allyl         c-Pr         4-F-Phenyl         oil*           155         3,5-Dimethylisoxazol-4-yl         i-Pr         4-F-Phenyl         133-136           156         3,5-Dimethylisoxazol-4-yl         i-Pr         2,4-diF-Phenyl         175-178           157         3,5-Dimethylisothiazol-4-yl         i-Pr         2,4-diF-Phenyl         oil*           158         3,5-Dimethylisothiazol-4-yl         i-Pr         2,4-di-F-Phenyl         124-127	143	2-Methoxybenzyl	i-Pr	4-F-Phenyl	104-106
146 (Ex.3)         Allyl         i-Pr         4-F-Phenyl         65-66           147         Allyl         i-Pr         2-Dihydropyranyl         oil*           148         2-Chloroethyl         i-Pr         4-F-Phenyl         oil*           149         2-Chloroethyl         i-Pr         2-Dihydropyranyl         oil*           150         Allyl         Et         Pyrrolidinyl         oil*           151         Allyl         i-Pr         2,4-diF-Phenyl         oil*           152         Benzyl         Et         Et         oil*           153         Benzyl         Me         Phenyl         oil*           154         Allyl         c-Pr         4-F-Phenyl         oil*           155         3,5-Dimethylisoxazol-4-yl         i-Pr         2,4-diF-Phenyl         133-136           156         3,5-Dimethylisoxhiazol-4-yl         i-Pr         2,4-diF-Phenyl         175-178           157         3,5-Dimethylisothiazol-4-yl         i-Pr         2,4-diF-Phenyl         oil*           158         3,5-Dimethylisothiazol-4-yl         i-Pr         2,4-diF-Phenyl         128-161           159         3,5-Dimethylisothiazol-4-yl         i-Pr         4-F-Phenyl         oil*     <	144	2-Chlorobenzyl	i-Pr	2-Dihydropyranyl	oil*
147         Allyl         i-Pr         2-Dihydropyranyl         oil*           148         2-Chloroethyl         i-Pr         4-F-Phenyl         oil*           149         2-Chloroethyl         i-Pr         2-Dihydropyranyl         oil*           150         Allyl         Et         Pyrrolidinyl         oil*           151         Allyl         i-Pr         2,4-diF-Phenyl         oil*           152         Benzyl         Me         Phenyl         oil*           153         Benzyl         Me         Phenyl         oil*           154         Allyl         c-Pr         4-F-Phenyl         oil*           155         3,5-Dimethylisoxazol-4-yl         i-Pr         4-F-Phenyl         133-136           156         3,5-Dimethylisoxazol-4-yl         i-Pr         2,4-diF-Phenyl         175-178           157         3,5-Dimethylisothiazol-4-yl         i-Pr         4-F-Phenyl         oil*           158         3,5-Dimethylisothiazol-4-yl         i-Pr         2,4-di-F-Phenyl         158-161           159         3,5-Dimethylisothiazol-4-yl         i-Pr         4-F-Phenyl         124-127           160         2,5-Dichlorothiazoly-4-yl         i-Pr         4-F-Phenyl         oil*<	145	2-Chlorobenzyl	i-Pr	c-Hexenyl	oil*
148         2-Chloroethyl         i-Pr         4-F-Phenyl         oil*           149         2-Chloroethyl         i-Pr         2-Dihydropyranyl         oil*           150         Allyl         Et         Pyrrolidinyl         oil*           151         Allyl         i-Pr         2,4-diF-Phenyl         oil*           152         Benzyl         Et         Et         Et         oil*           153         Benzyl         Me         Phenyl         oil*           154         Allyl         c-Pr         4-F-Phenyl         oil*           155         3,5-Dimethylisoxazol-4-yl         i-Pr         4-F-Phenyl         133-136           156         3,5-Dimethylisoxazol-4-yl         i-Pr         2,4-diF-Phenyl         175-178           157         3,5-Dimethylisothiazol-4-yl         i-Pr         4-F-Phenyl         oil*           158         3,5-Dimethylisothiazol-4-yl         i-Pr         2,4-diF-Phenyl         158-161           159         3,5-Dimethylisothiazol-4-yl         i-Pr         4-Cl-Phenyl         124-127           160         2,5-Dichlorothiazoly-4-yl         i-Pr         4-F-Phenyl         oil*           161         2-Me-c-Hex         i-Pr         4-F-Phenyl	146 (Ex.3)	Allyl	i-Pr	4-F-Phenyl	65-66
149         2-Chloroethyl         i-Pr         2-Dihydropyranyl         oil*           150         Allyl         Et         Pyrrolidinyl         oil*           151         Allyl         i-Pr         2,4-diF-Phenyl         oil*           152         Benzyl         Et         Et         oil*           153         Benzyl         Me         Phenyl         oil*           154         Allyl         c-Pr         4-F-Phenyl         oil*           155         3,5-Dimethylisoxazol-4-yl         i-Pr         4-F-Phenyl         133-136           156         3,5-Dimethylisoxazol-4-yl         i-Pr         2,4-diF-Phenyl         175-178           157         3,5-Dimethylisothiazol-4-yl         i-Pr         4-F-Phenyl         oil*           158         3,5-Dimethylisothiazol-4-yl         i-Pr         2,4-di-F-Phenyl         158-161           159         3,5-Dimethylisothiazol-4-yl         i-Pr         4-Cl-Phenyl         124-127           160         2,5-Dichlorothiazoly-4-yl         i-Pr         4-F-Phenyl         oil*           161         2-Me-c-Hex         i-Pr         4-F-Phenyl         oil*           162         2-Me-c-Hex         i-Pr         Phenyl         oil* </td <td>147</td> <td>Aliyi</td> <td>i-Pr</td> <td>2-Dihydropyranyl</td> <td>oil*</td>	147	Aliyi	i-Pr	2-Dihydropyranyl	oil*
150   Allyl   Et	148	2-Chloroethyl	i-Pr	4-F-Phenyl	oil*
151         Allyl         i-Pr         2,4-diF-Phenyl         oil*           152         Benzyl         Et         Et         oil*           153         Benzyl         Me         Phenyl         oil*           154         Allyl         c-Pr         4-F-Phenyl         oil*           155         3,5-Dimethylisoxazol-4-yl         i-Pr         4-F-Phenyl         133-136           156         3,5-Dimethylisoxazol-4-yl         i-Pr         2,4-diF-Phenyl         175-178           157         3,5-Dimethylisothiazol-4-yl         i-Pr         4-F-Phenyl         oil*           158         3,5-Dimethylisothiazol-4-yl         i-Pr         2,4-di-F-Phenyl         158-161           159         3,5-Dimethylisothiazol-4-yl         i-Pr         4-Cl-Phenyl         124-127           160         2,5-Dichlorothiazoly-4-yl         i-Pr         4-F-Phenyl         oil*           161         2-Me-c-Hex         i-Pr         4-F-Phenyl         78-81           162         2-Me-c-Hex         i-Pr         Phenyl         oil*           163         CF3CH2         i-Pr         4-F-Phenyl         55-60           165         i-Pr         i-Pr         Benzyl         oil*	149	2-Chloroethyl	i-Pr	2-Dihydropyranyl	oil*
Benzyl   Benzyl   Me	150	Aliyi	Et	Pyrrolidinyl	oil*
Benzyl   Me	151	Allyl	i-Pr	2,4-diF-Phenyl	oil*
154       Allyl       c-Pr       4-F-Phenyl       oil*         155       3,5-Dimethylisoxazol-4-yl       i-Pr       4-F-Phenyl       133-136         156       3,5-Dimethylisoxazol-4-yl       i-Pr       2,4-diF-Phenyl       175-178         157       3,5-Dimethylisothiazol-4-yl       i-Pr       4-F-Phenyl       oil*         158       3,5-Dimethylisothiazol-4-yl       i-Pr       4-Cl-Phenyl       158-161         159       3,5-Dimethylisothiazol-4-yl       i-Pr       4-Cl-Phenyl       124-127         160       2,5-Dichlorothiazoly-4-yl       i-Pr       4-F-Phenyl       oil*         161       2-Me-c-Hex       i-Pr       4-F-Phenyl       78-81         162       2-Me-c-Hex       i-Pr       Phenyl       oil*         163       CF3CH2       i-Pr       4-F-Phenyl       122-124         164       H       i-Pr       4-F-Phenyl       55-60         165       i-Pr       i-Pr       Benzyl       oil*         166       i-Pr       Et       Benzyl       oil*	152	Benzyl	Et	Et	oil*
155       3,5-Dimethylisoxazol-4-yl       i-Pr       4-F-Phenyl       133-136         156       3,5-Dimethylisoxazol-4-yl       i-Pr       2,4-diF-Phenyl       175-178         157       3,5-Dimethylisothiazol-4-yl       i-Pr       4-F-Phenyl       oil*         158       3,5-Dimethylisothiazol-4-yl       i-Pr       2,4-di-F-Phenyl       158-161         159       3,5-Dimethylisothiazol-4-yl       i-Pr       4-Cl-Phenyl       124-127         160       2,5-Dichlorothiazoly-4-yl       i-Pr       4-F-Phenyl       oil*         161       2-Me-c-Hex       i-Pr       4-F-Phenyl       78-81         162       2-Me-c-Hex       i-Pr       Phenyl       oil*         163       CF3CH2       i-Pr       4-F-Phenyl       122-124         164       H       i-Pr       4-F-Phenyl       55-60         165       i-Pr       i-Pr       Benzyl       oil*         166       i-Pr       Et       Benzyl       oil*	153	Benzyl	Ме	Phenyl	oil*
156       3,5-Dimethylisoxazol-4-yl       i-Pr       2,4-diF-Phenyl       175-178         157       3,5-Dimethylisothiazol-4-yl       i-Pr       4-F-Phenyl       oil*         158       3,5-Dimethylisothiazol-4-yl       i-Pr       2,4-di-F-Phenyl       158-161         159       3,5-Dimethylisothiazol-4-yl       i-Pr       4-Cl-Phenyl       124-127         160       2,5-Dichlorothiazoly-4-yl       i-Pr       4-F-Phenyl       oil*         161       2-Me-c-Hex       i-Pr       4-F-Phenyl       78-81         162       2-Me-c-Hex       i-Pr       Phenyl       oil*         163       CF3CH2       i-Pr       4-F-Phenyl       122-124         164       H       i-Pr       4-F-Phenyl       55-60         165       i-Pr       i-Pr       Benzyl       oil*         166       i-Pr       Et       Benzyl       oil*	154	Allyl	с-Рт	4-F-Phenyl	oil*
157       3,5-Dimethylisothiazol-4-yl       i-Pr       4-F-Phenyl       oil*         158       3,5-Dimethylisothiazol-4-yl       i-Pr       2,4-di-F-Phenyl       158-161         159       3,5-Dimethylisothiazol-4-yl       i-Pr       4-Cl-Phenyl       124-127         160       2,5-Dichlorothiazoly-4-yl       i-Pr       4-F-Phenyl       oil*         161       2-Me-c-Hex       i-Pr       4-F-Phenyl       78-81         162       2-Me-c-Hex       i-Pr       Phenyl       oil*         163       CF3CH2       i-Pr       4-F-Phenyl       122-124         164       H       i-Pr       4-F-Phenyl       55-60         165       i-Pr       i-Pr       Benzyl       oil*         166       i-Pr       Et       Benzyl       oil*	155	3,5-Dimethylisoxazol-4-yl	i-Pr	4-F-Phenyl	133-136
158       3,5-Dimethylisothiazol-4-yl       i-Pr       2,4-di-F-Phenyl       158-161         159       3,5-Dimethylisothiazol-4-yl       i-Pr       4-Cl-Phenyl       124-127         160       2,5-Dichlorothiazoly-4-yl       i-Pr       4-F-Phenyl       oil*         161       2-Me-c-Hex       i-Pr       4-F-Phenyl       78-81         162       2-Me-c-Hex       i-Pr       Phenyl       oil*         163       CF3CH2       i-Pr       4-F-Phenyl       122-124         164       H       i-Pr       4-F-Phenyl       55-60         165       i-Pr       i-Pr       Benzyl       oil*         166       i-Pr       Et       Benzyl       oil*	156	3,5-Dimethylisoxazol-4-yl	i-Pr	2,4-diF-Phenyl	175-178
159       3,5-Dimethylisothiazol-4-yl       i-Pr       4-Cl-Phenyl       124-127         160       2,5-Dichlorothiazoly-4-yl       i-Pr       4-F-Phenyl       oil*         161       2-Me-c-Hex       i-Pr       4-F-Phenyl       78-81         162       2-Me-c-Hex       i-Pr       Phenyl       oil*         163       CF3CH2       i-Pr       4-F-Phenyl       122-124         164       H       i-Pr       4-F-Phenyl       55-60         165       i-Pr       i-Pr       Benzyl       oil*         166       i-Pr       Et       Benzyl       oil*	157	3,5-Dimethylisothiazol-4-yl	i-Pr	4-F-Phenyl	oil*
160         2, 5-Dichlorothiazoly-4-yl         i-Pr         4-F-Phenyl         oil*           161         2-Me-c-Hex         i-Pr         4-F-Phenyl         78-81           162         2-Me-c-Hex         i-Pr         Phenyl         oil*           163         CF3CH2         i-Pr         4-F-Phenyl         122-124           164         H         i-Pr         4-F-Phenyl         55-60           165         i-Pr         i-Pr         Benzyl         oil*           166         i-Pr         Et         Benzyl         oil*	158	3,5-Dimethylisothiazol-4-yl	i-Pr	2,4-di-F-Phenyl	158-161
161     2-Me-c-Hex     i-Pr     4-F-Phenyl     78-81       162     2-Me-c-Hex     i-Pr     Phenyl     oil*       163     CF3CH2     i-Pr     4-F-Phenyl     122-124       164     H     i-Pr     4-F-Phenyl     55-60       165     i-Pr     i-Pr     Benzyl     oil*       166     i-Pr     Et     Benzyl     oil*	159	3,5-Dimethylisothiazol-4-yl	i-Pr	4-Cl-Phenyl	124-127
162     2-Me-c-Hex     i-Pr     Phenyl     oil*       163     CF3CH2     i-Pr     4-F-Phenyl     122-124       164     H     i-Pr     4-F-Phenyl     55-60       165     i-Pr     i-Pr     Benzyl     oil*       166     i-Pr     Et     Benzyl     oil*	160	2, 5-Dichlorothiazoly-4-yl	i-Pr	4-F-Phenyl	oil*
163     CF3CH2     i-Pr     4-F-Phenyl     122-124       164     H     i-Pr     4-F-Phenyl     55-60       165     i-Pr     i-Pr     Benzyl     oil*       166     i-Pr     Et     Benzyl     oil*	161	2-Me-c-Hex	i-Pr	4-F-Phenyl	78-81
164         H         i-Pr         4-F-Phenyl         55-60           165         i-Pr         i-Pr         Benzyl         oil*           166         i-Pr         Et         Benzyl         oil*	162	2-Me-c-Hex	i-Pr	Phenyl	oil*
165         i-Pr         i-Pr         Benzyl         oil*           166         i-Pr         Et         Benzyl         oil*	163	CF <sub>3</sub> CH <sub>2</sub>	i-Pr	4-F-Phenyl	122-124
166 i-Pr Et Benzyl oil*	164	Н	i-Pr	4-F-Phenyl	55-60
	165	i-Pr	i-Pr	Benzyl	oil*
167 α-Me-Benzyl (S) i-Pr 4-F-Phenyl oil*	166	i-Pr	Et	Benzyl	oil*
	167	α-Me-Benzyl (S)	i-Pr	4-F-Phenyl	oil*

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168	α-Me-Benzyl (S)	i-Pr	Phenyl	oil*
169 (Ex.8)	i-Bu	i-Pr	4-F-Phenyl	80-81
170 (Ex.4)	NMe2	<i>i-</i> Pr	4-F-Phenyl	69-71
171	2-Methylphenyl	i-Pr	2, 3-DiF-Phenyl	88
172	2-Methyl-c-hexyl	i-Pr	2,4-DiF-Phenyl	oil*
173	α-Methylbenzyl (S)	i-Pr	Phenyl	72-74
174	α-Methylbenzyl (S)	<i>i-</i> Pr	4-Cl-Phenyl	oil*
175	2-Methylphenyl	i-Pr	4-Br-Phenyl	117
176	2-Methylphenyl	i-Pr	2,6-di-F-Phenyl	91
177	Phenyl (Me)N	i-Pr	4-F-Phenyl	62-64
178	α-Methylbenzyl (R)	i-Pr	4-Cl-Phenyl	oil*
179	α-Methylbenzyl (R)	i-Pr	4-F-Phenyl	64-67
180	2,6-DiMe-Phenyl	i-Pr	4, 6-Dimethoxy-1,3,5-	oil*
			Triazine-2-yl	
181	2-Me-Phenyl	i-Pr	4, 6-Dimethoxy-1,3,5-	oil*
			Triazine-2-yl	
182	i-Propyl	i-Pr	4, 6-Dimethoxy-1,3,5-	oil*
			Triazine-2-yl	<u> </u>
183	Phenyl (Me)N	Et	c-Hexyl	oil*
184	3-Trifluoromethylcyclohexyl	i-Pr	4-F-Phenyl	oil*
185	2-Methylphenyl	<i>i</i> -Pr	2,4-DiCl-Phenyl	54
186	2-Methylphenyl	i-Pr	2-Cl, 4-F-Phenyl	48-51
187	2-Methylphenyl	i-Pr	4-Ph-Phenyl	63
188	Oxiranylmethyl	· i-Pr	4-F-Phenyl	oil*
189	i-Propyl	Et	4-Pyridylmethyl	oil*
190	i-Propyl	Et	1,3,4-Thiadiazol-2-yl	oil*
191	(2,4-Dimethylthiazol-5-	<i>i</i> -Pr	4-Cl-Phenyl	oil*
	yl)methyl			
192	(2,4-Dimethylthiazol-5-	i-Pr	4-F-Phenyl	oil*
	yl)methyl			
193	2-Methylphenyl	3-Pentyl	4-F-Phenyl	142-145
194	Allyl	c-Bu	4-F-Phenyl	61-63
195	2-Methylphenyl	i-Pr	4-Cl, 2-F-Phenyl	50
196	2,4-Dimethylthiazol-5-yl	i-Pr	4-Cl-Phenyl	oil*
197	2,4-Dimethylthiazol-5-yl	i-Pr	Phenyl	oil*

198	2,4-Dimethylthiazol-5-yl	i-Pr	4-F-Phenyl	oil*
199	1-(3-Methyl-3-Butenyl)	<i>i-</i> Pr	4-F-Phenyl	77-78
200	2-Methylphenyl	c-Bu	4-F-Phenyl	108-110
201	2-Et-6-Me-Phenyl	i-Pr	4-F-Phenyl	oil*
202	4-Trifluoromethoxyphenyl	i-Pr	4-F-Phenyl	88-92
203	2-Methylphenyl	i-Pr	4-Methylsulfonylphenyl	153
204	2-Methylphenyl	i-Pr	2-F-Phenyl	42
205	2-Methylphenyl	i-Pr	4-Methylthiophenyl	104
206	2-Furanylmethyl	i-Pr	4-Cl-Phenyl	oil*
207	2-Furanylmethyl	i-Pr	4-F-Phenyl	oil*
208	2-Furanylmethyl	i-Pr	2,4-diF-Phenyl	oil*
209	2-Furanylmethyl	i-Pr	Phenyl	67-70
210	Cinnamyl	i-Pr	4-F-Phenyl	oil*
211	4-Acetoxybutyl	i-Pr	4-F-Phenyl	93-95
212	Propargyl	i-Pr	4-F-Phenyl	74-75
213	3-Trimethylsilylpropargyl	i-Pr	4-F-Phenyl	oil*
214	1-(3-Ethoxycarbonyl-2-	i-Pr	4-F-Phenyl	oil*
	Propenyl)			
215	MeO <sub>2</sub> CCH <sub>2</sub>	i-Pr	4-F-Phenyl	oil*
216	t-BuCOCH2	i-Pr	4-F-Phenyl	oil*
217	MeCOCH <sub>2</sub>	<i>i</i> -Pr	4-F-Phenyl	oil*
218	1-(3,4,4-Trifluoro-3-Butenyl)	i-Pr	4-F-Phenyl	oil*
219	2-(1,3-Dioxolan-2-yl)ethyl	i-Pr	4-F-Phenyl	94-96
220	CH₃OCH₂CH₂OCH₂	i-Pr	4-F-Phenyl	oil*
221	n-Butyl	<i>i-</i> Pr	4-F-Phenyl	oil*
222	2,4-DiMe-6-OMe-Phenyl	i-Pr	4-F-Phenyl	oil*
223	2,4-DiMe-6-OMe-Phenyl	i-Pr	2,4-diF-Phenyl	oil*
224	2-Br-4, 6-diMe-Phenyl	i-Pr	4-F-Phenyl	141-144
225	Me <sub>2</sub> N	i-Pr	Phenyl	oil*
226	3-Methyl-3-oxetanylmethyl	i-Pr	4-F-Phenyl	65-77
227	1-(3,3,3-Trifluoro-2-	i-Pr	4-F-Phenyl	80-105
	methoximino)propyl			
228	Methyl	Et	c-Hex	65-74
229	2-Methylphenyl	i-Pr	4-n-Bu-Phenyl	oil*
230	2-Methylphenyl	i-Pr	4-Et-Phenyl	oil*

231	2-Methylphenyl	i-Pr	4-i-Pr-Phenyl	94
232	(2,4-DiMe-Thiazol-5-yl)methyl	i-Pr	4-F-Phenyl	oil*
233	(2,4-DiMe-Thiazol-5-yl)methyl	i-Pr	2,4-diF-Phenyl	oil*
234	3-Pyridyl	<i>i</i> -Pr	4-F-Phenyl	109-112
235	3-Pyridyl	i-Pr	Phenyl	116-118
236	2-Methylphenyl	i-Pr	2-Me-Phenyi	oil*
237	2-Methylphenyl	i-Pr	4-Dimethylamino-Phenyl	115
238	α-Me-Benzyl (R)	i-Pr	2,4-diF-Phenyl	oil*
239	2-Methylphenyl	s-Bu	4-F-Phenyl	79-82
240	2-Methylphenyl	1-c-Pr-ethyl	4-F-Phenyl	90-93
241	c-Propyi	i-Pr	4-Cl-Phenyl	oil*
242	c-Propyl	i-Pr	4-F-Phenyl	65-67
243	c-Propyl	i-Pr	Phenyl	70-74
244	2,6-DiMe-Phenyl	1-Ethoxy	4-F-Phenyl	97-99
		carbonylethyl		
245	D <sub>3</sub> C	i-Pr	4-F-Phenyi	141-143
246	Neopentyl	i-Pr	4-F-Phenyl	106-108
247	2-Methylphenyl	1-Ethoxy	4-F-Phenyl	97-99
		carbonylethyl		
248	Ethyl	1-Ethoxy	4-F-Phenyl	oil*
 		carbonylethyl		
249	Allyl	c-Heptyl	4-F-Phenyl	72-79
250	2-Phenethyl	i-Pr	4-F-Phenyl	95-96
251	c-Propylmethyl	i-Pr	4-F-Phenyl	oil*
252	CH <sub>3</sub> CH <sub>2</sub> C(O)CH <sub>2</sub>	i-Pr	4-F-Phenyl	oil*
253	n-C <sub>19</sub> H <sub>39</sub>	i-Pr	4-F-Phenyl	oil*
254	1-(2-Octynyl)	i-Pr	4-F-Phenyl	oil*
255	2-(1,3-Dioxan-2-yl)ethyl	i-Pr	4-F-Phenyl	82-83
256	1-(2-Trimethylsilylmethyl-2-	i-Pr	4-F-Phenyl	oil*
	propenyl)		·	
257	2-Cyclohexylethyl	i-Pr	4-F-Phenyl	oil*
258	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub>	í-Pr	4-F-Phenyl	119-120
259	(3,5-dimethylisoxazol-4-	<i>i-</i> Pr	4-F-Phenyl	oil*
	yi)methyl			
260	PhC(O)CH(Me)	i-Pr	4-F-Phenyl	oil*

	·			
261	PhCH <sub>2</sub> OCH <sub>2</sub>	i-Pr	4-F-Phenyl	110-112
262	Geranyi	<i>i-</i> Pr	4-F-Phenyl	oil*
263	1-(3-Methoxycarbonyl-2-	<i>i-</i> Pr	4-F-Phenyl	oil*
	Propenyl)			
264	Et <sub>2</sub> NC(O)CH <sub>2</sub>	i-Pr	4-F-Phenyl	oil*
265	t-BuO2CCH2	i-Pr	4-F-Phenyl	oil*
266	MeO <sub>2</sub> CCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	i-Pr	4-F-Phenyl	oil*
267	2-Pyridylmethyl	<i>i-</i> Pr	4-F-Phenyl	oil*
268	2-Methylphenyl	i-Pr	4-Phenoxy-Phenyl	51
269	2-Methylphenyl	i-Pr	3-F-Phenyl	128
270	2-Methylphenyl	i-Pr	4-t-Bu-Phenyl	oil*
271	c-Pentyl	i-Pr	4-F-Phenyl	79-80
272	3-Thienyl	i-Pr	4-F-Phenyl	125-128
273	2,6-DiMe-Phenyl	i-Pr	2-Cyclohexenyl	105-112
274	Me <sub>2</sub> N	Et	c-Hex	oil*
275	Neopentyl	Et	c-Hex	oil*
276	Neopentyl	<i>i</i> -Pr	Phenyl	116-118
277	Neopentyl	i-Pr	2,4-DiF-Phenyl	oil*
278	2-Methylphenyl	i-Pr	5-Indanyl	115
279	Allyl	1-Ethoxy	4-F-Phenyl	oil*
		carbonylethyl		
280	c-Hexyl	1-Ethoxy	4-F-Phenyl	oil*
		carbonylethyl		
281	2, 3-Dihydro-2-Me-benzofuran-	<i>i-</i> Pr	4-F-Phenyl	148-150
	7-yl			
282	c-Pentyl	i-Pr	4-Cl-Phenyl	104-106
283	c-Pentyl	i-Pr	Phenyl	oil*
284	c-Pentyl	i-Pr	2,4-DiF-Phenyl	oil*
285	1-(3-Chlorobutenyi)	i-Pr	4-F-Phenyl	oil*
286	1-(2-Pentenyl)	i-Pr	4-F-Phenyi	oil*
287	3-Fluoropropyl	i-Pr	4-F-Phenyl	oil*
288	1-(3-Methyl-2-butenyl)	i-Pr	4-F-Phenyl	oil*
289	1-(4-Fluorobutyl)	i-Pr	4-F-Phenyl	oil*
290	n-Pentyl	i-Pr	4-F-Phenyl	oil*
291	1-(4-Pentenyl)	i-Pr	4-F-Phenyl	oil*

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292	Acetoxymethyl	i-Pr	4-F-Phenyl	il*
293 (Ex.15)	Methoxymethyl	<i>i</i> -Pr	4-F-Phenyl	oil*
294	Trimethylsilylmethyl	i-Pr	4-F-Phenyl	oil*
295	Ethoxymethyl	i-Pr	4-F-Phenyl	oil*
296	i-Propyl	i-Pr	2-Pyrazinyl	oil*
297	c-Propyl	Et	Et	oil*
298	c-Propyl	Et	с-Нех	oil*
299	c-Propyl	i-Pr	2,4-DiF-Phenyl	83-85
300	2-Methylphenyl	i-Pr	4-CF <sub>3</sub> O-Phenyl	109
301	2-Methylphenyl	i-Pr	4-Pyridinyl	152-154
302	i-Propyl	l-Ethoxy carbonylethyl	4-F-Phenyl	oil*
303	2-t-Bu-6-Me-Phenyl	<i>i</i> -Pr	Phenyl	oil*
304	2,6-DiEt-Phenyl	i-Pr	4-F-Phenyl	oil*
305	2,6-DiEt-Phenyl	i-Pr	Phenyl	77-83
306	2-Methylphenyl	i-Pr	2-Naphthyl	49
307	Allyl	Et	c-Hex	62-65
308	c-Hexyl	Et	c-Hex	oil*
309	i-Propyl	Et	с-Нех	oil*
310	4-Tetrahydropyranyl	i-Pr	4-F-Phenyl	101-103
311	2-Tetrahydropyranyl	i-Pr	4-F-Phenyl	103-105
312	2-Furanylmethyl	Et	с-Нех	oil*
313	2-Biphenylylmethyl	<i>i-</i> Pr	4-F-Phenyi	113-126
314	1-(2-Methylthioethyl)	i-Pr	4-F-Phenyl	101-106
315	2,6-DiMe-Phenyl	i-Pr	2-Dihydropyranyl	122-124
316	2-(3-Methylbutyl)	i-Pr	4-F-Phenyl	62-64
317	1-(2,2-Dimethoxyethyl)	i-Pr	4-F-Phenyl	oil*
318	2,6-DiMe-Phenyl	c-Bu	2,4-DiCl-Phenyl	127-131
319	i-Propyl	c-Bu	2,4-DiCl-Phenyl	103-106
320	(5-Cl-1,2,3-thiadiazol-4- yl)methyl	i-Pr	2,4-DiF-Phenyl	103-108
321	(5-Cl-1,2,3-thiadiazol-4- yl)methyl	í-Pr	Phenyl	128-131
322	Cyclopentylmethyl	i-Pr	4-F-Phenyl	83-90
323	1-(3-Dimethylaminopropyl)	i-Pr	4-F-Phenyl	oil*

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324	2-Methylphenyl	2-(3-OMe-propyl)	4-F-Phenyl	115-121
325	Allyl	1-c-Pr-ethyl	4-Cl-Phenyl	oil*
326	[2.2.1]-Bicyclohept-2-yl	i-Pr	2,4-DiF-Phenyl	103-105
327	[2.2.1]-Bicyclohept-2-yl	i-Pr	4-F-Phenyl	90-94
328	[2.2.1]-Bicyclohept-2-yl	i-Pr	Phenyl	90-91
329	2-Naphthyl	<i>i-</i> Pr	4-F-Phenyl	150-151
330	2-Methylphenyl	1-c-Pr-ethyl	4-Cl-Phenyl	111-115
331	2-MeO-6-Me-Phenyl	l-Ethoxy carbonylethyl	4-F-Phenyl	oil*
332	2-Naphthyl	<i>i-</i> Pr	Phenyl	134-135
333	2-Naphthyl	<i>i-</i> Pr	4-Cl-Phenyl	142-143
334	2-Naphthyl	<i>i-</i> Pr	4-Me-Phenyl	172-173
335	2-Naphthyl	i-Pr	2,4-DiF-Phenyl	oil*
336	1-Me-2-Naphthyl	i-Pr	4-Cl-Phenyl	oil*
337	1-Me-2-Naphthyl	i-Pr	2,4-DiF-Phenyl	oil*
338	1-Me-2-Naphthyl	i-Pr	4-F-Phenyl	oil*
339	c-Heptyl	i-Pr	4-Cl-Phenyl	125-135
340	c-Heptyl	i-Pr	4-F-Phenyl	104-105
341	c-Heptyl	i-Pr	Phenyl	100-102
342	c-Heptyl	i-Pr	2,4-DiF-Phenyl	87-90
343	2-Tetrahydrofuranylmethyl	i-Pr	4-F-Phenyl	95-96
344	1-Me-2-Naphthyl	i-Pr	Phenyl	oil*
345	2-Tetrahydrofuranyl	i-Pr	4-F-Phenyl	oil*
346	(3,5-Dimethylpyrazol-1- yl)methyl	i-Pr	Phenyl	138-148
347	(3,5-Dimethylpyrazol-l- yl)methyl	i-Pr	4-F-Phenyl	140-144
348	c-Butyl	і-Рт	Phenyl	70-72
349	c-Butyl	i-Pr	4-Cl-Phenyl	64-68
350	c-Butyl	i-Pr	4-F-Phenyl	97-100
351	c-Butyl	i-Pr	2,4-diF-Phenyl	65-67
352	MeOCH2CH(Me)	i-Pr	2,4-diF-Phenyl	oil*
353	3-Pentyl	i-Pr	2,4-diF-Phenyl	72-75
354	3-Pentyl	<i>i-</i> Pr	Phenyl	oil*
355	2-(3-Methylbutyl)	i-Pr	Phenyl	oil*

356	2-(3-Methylbutyl)	i-Pr	2,4-diF-Phenyl	il*
357	MeOCH <sub>2</sub> CH(Me)	i-Pr	2,4-diF-Phenyl	81-85
358	3-Pentyl	i-Pr	4-F-Phenyl	oil*
359	2-t-Bu-6-Me-Phenyl	i-Pr	4-F-Phenyl	oil*
360	1-(1-Me-c-propyl)	i-Pr	Phenyl	82-83
361	1-(1-Me-c-propyl)	<i>i-</i> Pr	4-Cl-Phenyl	oil*
362	1-(1-Me-c-propyl)	<i>i-</i> Pr	4-F-Phenyl	oil*
363	1-(1-Me- <i>c</i> -propyl)	i-Pr	2,4-diF-Phenyl	oil*
364	2-Methylphenyl	Et	Et	oil*
365	Methyl	1-Ethoxy	4-F-Phenyl	oil*
		carbonylethyl		
366	3-Pyridylmethyl	i-Pr	4-F-Phenyl	oil*
367	2-(3-Chloropropyl)	i-Pr	4-F-Phenyl	oil*
368	Methyl	i-Pr	2,4-diF-Phenyl	oil*
369	1-(2-Me-c-propyl)	i-Pr	4-Cl-Phenyl	oil*
370	1-(2-Me-c-propyl)	i-Pr	Phenyl	oil*
371	1-(2-Me-c-propyl)	i-Pr	4-F-Phenyl	95-97
372	1-(2-Me-c-propyl)	i-Pr	2,4-diF-Phenyl	oil*
373	(5-Cl-3-Me-isothiazol-4-	i-Pr	4-F-Phenyl	126-129
_	yl)methyl			
374	(5-Cl-3-Me-isothiazol-4-	i-Pr	Phenyl	133-136
	yl)methyl		•	
375	3-Tetrahydrofurylmethyl	<i>i-</i> Pr	4-F-Phenyl	84-86
376	Chloromethyl	<i>i-</i> Pr	4-F-Phenyl	83-86
377	Н	i-Pr	4-Cl-Phenyl	137-138
378	(4-Methyl-1,2,3-thiadiazol-5-	i-Pr	Phenyl	109-113
	yl)methyl			
379	(2-Ethoxy-4-CF <sub>3</sub> -thiazol-5-	i-Pr	Phenyl	oil*
	yl)methyl			
380	(4-Methyl-1,2,3-thiadiazol-5-	i-Pr	4-F-Phenyl	54-55
	yl)methyl		<u>.                                    </u>	
381	(2-Ethoxy-4-CF <sub>3</sub> -thiazol-5-	i-Pr	4-F-Phenyl	oil*
	yl)methyl			
382	1-(2,6-Dimethylpiperidine)	<i>i</i> -Pr	4-F-Phenyl	97-100
383	1-(2,6-Dimethylpiperidine)	<i>i-</i> Pr	2,4-diF-Phenyl	81-84

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384	4-(Morph lino)	i-Pr	2,4-diF-Phenyl	62-68
385	4-(Morpholino)	i-Pr	4-F-Phenyl	173-175
386	Н	i-Pr	Phenyl	116-117
387	2-(2-Cyanoethyl)	i-Pr	4-F-Phenyl	oil*
388	1-(2-Cyanoethyl)	i-Pr	4-F-Phenyl	125-128
389	n-Hexyl	i-Pr	4-F-Phenyl	oil*
390	2-(1,3-Difluoropropyl)	i-Pr	4-F-Phenyl	99-101
391	Н	i-Pr	2,4-diF-Phenyl	110-112
392	Trans-1-(2-Me-c-propyl)	i-Pr	4-F-Phenyl	90-91
393	1-(1-Chloroethyl)	<i>i</i> -Pr	4-F-Phenyl	70-73
394	i-Butyl	i-Pr	2,4-diF-Phenyl	oil*
395	Cyanomethyl	i-Pr	4-F-Phenyl	120-123
396	1-(2-Ethoxy-3-ethoxycarbonyl-	i-Pr	4-F-Phenyl	112-114
	2-propenyl)			
397	1-(3,3,3-trifluoropropyl)	i-Pr	4-F-Phenyl	99-100
398	1-(4,4,4-trifluorobutyl)	i-Pr	4-F-Phenyl	71-72
399	1-(3,4,4, 4-Tetrafluoro-3-	i-Pr	4-F-Phenyl	oil*
	trifluoromethylbutyl)			
400	CH <sub>3</sub> C(O)CH(CH <sub>3</sub> )	<i>i-</i> Pr	4-F-Phenyl	oil*
401	1-(2-Cl-4-Me-thiazol-5-yl)ethyl	i-Pr	4-F-Phenyl	oil*
402	2-Methyl-c-propylmethyl	i-Pr	4-F-Phenyl	81-83
403	c-Butylmethyl	i-Pr	4-F-Phenyl	74-76
404	1-(c-Propylethyl)	i-Pr	4-F-Phenyl	97-99
405	1-(2-C1-4-Me-thiazol-5-yl)ethyl	i-Pr	2,4-diF-Phenyl	122-125
406	1-(2-Cl-4-Me-thiazol-5-yl)ethyl	<i>i-</i> Pr	4-Cl-Phenyl	128-131
407	1-(2-Cl-4-Me-thiazol-5-yl)ethyl	i-Pr	Phenyl	128-131
408	2-(3-Chloropropyl)	i-Pr	2,4-diF-Phenyl	oil*
409	Methyl	<i>i</i> -Pr	Phenyl	105-114
410	i-Butyl	i-Pr	Phenyl	55-67
411	2-(3-Chloropropyl)	i-Pr	Phenyl	95-105
412	1-(2-Butenyl)	i-Pr	4-F-Phenyl	oil*
413	2-(3-Butenyl)	i-Pr	4-F-Phenyl	oil*
414-	Allyldimethylsilylmethyl	<i>i-</i> Pr-	4-Cl-Phenyl	oil*
415	1-(2-Bromoethyl)	i-Pr	Phenyl	90-92
416	4-Tetrahydropyranyl	i-Pr	Phenyl	80-93

417	i-Butyl	<i>i-</i> Pr	4-Cl-Phenyl	oil*
418	1-(3-Methyl-3-Butenyl)	<i>i</i> -Pr	Phenyl	oil*
419	1-(2-Methylthioethyl)	i-Pr	Phenyl	oil*
420	(3-Methyl-3-oxetanyl)methyl	i-Pr	Phenyi	oil*
421	2-(1,3-difluoropropyl)	i-Pr	Phenyl	95-107
422	Chloromethyl	<i>i-</i> Pr	4-Cl-Phenyl	75-77
423	Chloromethyl	i-Pr	Phenyl	75-77
424	Phenyldimethylsilylmethyl	i-Pr	4-Cl-Phenyl	oil*
425	Vinyldimethylsilylmethyl	i-Pr	4-Cl-Phenyl	oil*
426	Allyldimethylsilylmethyl	i-Pr	4-F-Phenyi	oil*
427	c-Heptyl	<i>i-</i> Pr	3, 6-dihydro-2H-pyran	oil*
428	c-Heptyl	i-Pr	1-Cyclohexenyl	oil*
429	c-Heptyl	Et	c-Hexyl	oil*
430	(5,6-Dihydro-1,2-Oxazin-3-	i-Pr	Phenyl	95-97
··	yl)methyl	·		
431	Cyanomethyl	i-Pr	2,4-diF-Phenyl	123-126
432	1-(1-Cyanoethyl)	<i>i</i> -Pr	2,4-diF-Phenyl	oil*
433	1-(2-Cyanoethyl)	<i>i</i> -Pr	2,4-diF-Phenyl	112-114
434	Cyanomethyl	i-Pr	Phenyl	90-91
435	1-(1-Cyanoethyl)	i-Pr	Phenyl	oil*
436	l-(2-Cyanoethyl)	<i>i</i> -Pr	Phenyl	74-77
437	Chloromethyl	i-Pr	2,4-diF-Phenyl	69-71
438	1-(1-Chloroethyl)	i-Pr	Phenyl	73-75
439	1-(1-Methoxyethyl)	i-Pr	4-F-Phenyl	77-79
440	Me <sub>2</sub> NC(O)CH <sub>2</sub>	i-Pr	2,4-diF-Phenyl	111
441	l-(1-Methoxyethyl)	i-Pr	Phenyl	oil*
442	1-(2,4-Dimethylthiazol-5-	i-Pr	Phenyl	oil*
	yl)ethyl			
443	1-(2,4-Dimethylthiazol-5-	i-Pr	2,4-diF-Phenyl	oii*
	yl)ethyl		· · · · · · · · · · · · · · · · · · ·	
444	1-(2-Cyanoethyl)	í-Pr	4-Cl-Phenyl	139-142
445	PhCONHCH <sub>2</sub>	i-Pr	4-F-Phenyl	161-163
446	1-(1,2-Dimethoxyethyl)	i-Pr	4-F-Phenyl	oil*
447	(EtO) <sub>2</sub> P(O)CH <sub>2</sub>	i-Pr	Phenyl	il*
448	(EtO) <sub>2</sub> P(O)CH(CH <sub>3</sub> )	i-Pr	Phenyl	oil*

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449	1-(2-Ethyl-4-methylthiazol-5- yl)ethyl	i-Pr	4-F-Phenyl	106-109
450	(5,6-Dihydro-1,2-Oxazin-3-yl)methyl	i-Pr	4-Cl-Phenyl	105-108
451	1-(1-Cyanoethyl)	i-Pr	4-Cl-Phenyl	117-127
452	1-(1-Methoxy-2-propenyl)	<i>i</i> -Pr	4-F-Phenyl	oil*
453	1-(2-Methylsulfonylethyl)	<i>i-</i> Pr	4-F-Phenyl	oil*
454	1-(2-Pentenyl)	<i>i</i> -Pr	Phenyl	oil*
455	3-(4-Pentenyl)	<i>i</i> -Pr	Phenyl	oil*
456	2-(3-Chloropropyl)	<i>ί</i> -Pτ	4-Cl-Phenyl	oil*
457	Hydroxymethyl	<i>i-</i> Pr	4-Cl-Phenyl	oil*
458	1-(2-Chloro-1-methoxyethyl)	i-Pr	4-Cl-Phenyl	oil*
459	Ethyldimethylsilylmethyl	<i>i</i> -Pr	4-F-Phenyl	54-55
460	Ethyldimethylsilylmethyl	i-Pr	4-Cl-Phenyl	68-71
461	1-(3-Trimethylsilylpropyl)	i-Pr	4-F-Phenyl	oil*
462	t-BuC(O)OCH <sub>2</sub>	<i>i-</i> Pr	4-F-Phenyl	87-90
463	CH <sub>3</sub> O <sub>2</sub> CCH(CH <sub>3</sub> )	<i>i</i> -Pr	2,4-diF-Phenyl	oil*
464	CH <sub>3</sub> O <sub>2</sub> CCH(CH <sub>3</sub> )	i-Pr	Phenyl	oil*
465	EtO <sub>2</sub> CCH <sub>2</sub> CH(CO <sub>2</sub> Et)	<i>i</i> -Pr	2,4-diF-Phenyl	oil*
466	(3,4-Dihydroisoxazol-3-yl)methyl	i-Pr	4-F-Phenyl	93-95
467	Me <sub>3</sub> SiCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub>	i-Pr	4-Cl-Phenyl	oil*
468	2-(1,3-Difluoropropyl)	i-Pr	4-Cl-Phenyl	93-96
469	1-(2-Chloroethyl)	i-Pr	Phenyl	80-83
470	Hydroxymethyl	i-Pr	4-F-Phenyl	89-95
471	2-(3, 3-Dimethoxypropyl)	i-Pr	4-F-Phenyl	60-63
472	2-(3, 3-Dimethoxypropyl)	i-Pr	2,4-diF-Phenyl	oil*
473	MeCONHCH <sub>2</sub>	i-Pr	4-F-Phenyl	150-168
474	1-(2-Chloroethyl)	i-Pr	4-Cl-Phenyl	100-101
475	1-(2-Chloroethyl)	i-Pr	2,4-diF-Phenyl	70-72
476	Cyanomethyl	i-Pr	4-Cl-Phenyl	173-179
477	Me <sub>2</sub> NC(O)CH <sub>2</sub>	i-Pr	4-Cl-Phenyl	152-153
478	Me <sub>2</sub> NC(O)CH(CH <sub>3</sub> )	i-Pr	4-F-Phenyl	oil*
479	Me <sub>2</sub> NC(O)CH(CH <sub>3</sub> )	i-Pr	Phenyl	oil*
480	Me <sub>2</sub> NC(O)CH(CH <sub>3</sub> )	i-Pr	4-Cl-Phenyl	102

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Me <sub>2</sub> NC(O)CH(CH <sub>3</sub> )	i-Pr	2,4-diF-Phenyl	oil*
(2-Chlorothiazol-5-yl)methyl	i-Pr	4-F-Phenyl	69-70
1-(2-nitroethyl)	i-Pr	4-Cl-Phenyi	119-122
i-PrC(CO)CH <sub>2</sub>	i-Pr	4-F-Phenyl	79-81
i-PrC(CO)CH <sub>2</sub>	i-Pr	Phenyl	oil*
	i-Pr	2,4-diF-Phenyl	oil*
	i-Pr	4-Cl-Phenyl	oil*
	i-Pr	4-F-Phenyl	oil*
	i-Pr	Phenyl	87-89
<del></del>	i-Pr	2,4-diF-Phenyl	oil*
<del> </del>	i-Pr	4-F-Phenyl	oil*
	i-Pr	Phenyl	oil*
<del> </del>			oil*
<del> </del>			oil*
	,		1
	i-Pr	Phenyl	oil*
1	131		
<del> </del>	i-Pr	Phenyl	oil*
	i-Pr	Phenyl	oil*
		•	Ì
	i-Pr	Phenyl	oil*
	i-Pr	4-Ci-Phenyl	103-104
yl)ethyl			
1-(3-Fluoropropyi)	i-Pr	2,4-diF-Phenyl	oil*
2-(1,3-Dioxolan-2-yl)ethyl	i-Pr	2,4-diF-Phenyl	oil*
2-(1,3-Dioxan-2-yl)ethyl	i-Pr	2,4-diF-Phenyl	oil*
Methoxymethyl	i-Pr	2,4-diF-Phenyl	oil*
Ethoxymethyl	i-Pr	2,4-diF-Phenyl	oil*
CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub>	i-Pr	2,4-diF-Phenyl	oil*
.1-(4-Acetoxybutyl)	i-Pr	2,4-diF-Phenyl	oil*
1-(3,4,4-Trifluoro-3-butenyl)	i-Pr	2,4-diF-Phenyl	oil*
1-(2-Phenylethyl)	i-Pr	2,4-diF-Phenyl	oil*
Cyclopropylmethyl	i-Pr	2,4-diF-Phenyl	oil*
(3,5-Dimethyloxazol-4-	i-Pr	2,4-diF-Phenyl	oil*
yl)methyl			<u> </u>
	(2-Chlorothiazol-5-yl)methyl  1-(2-nitroethyl)  i-PrC(CO)CH2  i-PrC(CO)CH2  i-PrC(CO)CH2  i-PrC(CO)CH2  c-PrC(CO)CH2  c-PrC(CO)CH2  c-PrC(CO)CH2  C-PrC(CO)CH2  C-PrC(CO)CH2  CICH2C(O)NHCH2CH2  CICH2C(O)NHCH2CH2  (5,6-Dihydro-1,3-oxazin-2-yl)methyl  (3,4-Dihydrooxazol-2-yl)methyl  (1-Methyl-1,2,5,6-tetrahydropyridin-3-yl)methyl  1-(2-(3-Pyridyl)-2-propenyl)  1-(2-Ethyl-4-methylthiazol-5-yl)ethyl  1-(3-Fluoropropyl)  2-(1,3-Dioxan-2-yl)ethyl  Methoxymethyl  Ethoxymethyl  CH3OCH2CH2OCH2  1-(4-Acetoxybutyl)  1-(3,4,4-Trifluoro-3-butenyl)  1-(2-Phenylethyl)  Cyclopropylmethyl  Cyclopropylmethyl  Cyclopropylmethyl  Cyclopropylmethyl  Cyclopropylmethyl  Cyclopropylmethyl  Cyclopropylmethyl  Cyclopropylmethyl	(2-Chlorothiazol-5-yl)methyl i-Pr  1-(2-nitroethyl) i-Pr  i-PrC(CO)CH2 i-Pr  i-PrC(CO)CH2 i-Pr  i-PrC(CO)CH2 i-Pr  i-PrC(CO)CH2 i-Pr  i-PrC(CO)CH2 i-Pr  c-PrC(CO)CH2 i-Pr  c-PrC(CO)CH2 i-Pr  c-PrC(CO)CH2 i-Pr  C-PrC(CO)CH2 i-Pr  C-PrC(CO)CH2 i-Pr  C-PrC(CO)CH2 i-Pr  CICH2C(O)NHCH2CH2 i-Pr  CICH2C(O)NHCH2CH2 i-Pr  (5,6-Dihydro-1,3-oxazin-2-yl)methyl i-Pr  (1-Methyl-1,2,5,6-i-Pr  tetrahydropyridin-3-yl)methyl i-Pr  1-(2-Ethyl-4-methylthiazol-5-yl)ethyl i-Pr  2-(1,3-Dioxala-2-yl)ethyl i-Pr  Methoxymethyl i-Pr  Ethoxymethyl i-Pr  CH3OCH2CH2OCH2 i-Pr  1-(4-Acetoxybutyl) i-Pr  1-(3,4,4-Trifluoro-3-butenyl) i-Pr  1-(2-Phenylethyl) i-Pr  Cyclopropylmethyl i-Pr	(2-Chlorothiazol-5-yl)methyl         i-Pr         4-F-Phenyl           1-(2-nitroethyl)         i-Pr         4-Cl-Phenyl           i-PrC(CO)CH2         i-Pr         4-F-Phenyl           i-PrC(CO)CH2         i-Pr         Phenyl           i-PrC(CO)CH2         i-Pr         2,4-diF-Phenyl           i-PrC(CO)CH2         i-Pr         4-F-Phenyl           c-PrC(CO)CH2         i-Pr         Phenyl           c-PrC(CO)CH2         i-Pr         2,4-diF-Phenyl           c-PrC(CO)CH2         i-Pr         Phenyl           HC(O)CH2         i-Pr         Phenyl           CICH2C(O)NHCH2CH2         i-Pr         Phenyl           (5,6-Dihydro-1,3-oxazin-2-yl)methyl         i-Pr         Phenyl           (3,4-Dihydrooxazol-2-yl)methyl         i-Pr         Phenyl           (1-Cyclohexenyl)methyl         i-Pr         Phenyl           (1-Methyl-1,2,5,6-         i-Pr         Phenyl           tetrahydropyridin-3-yl)methyl         i-Pr         Phenyl           1-(2-Ethyl-4-methylthiazol-5-yl)ethyl         i-Pr         2,4-diF-Phenyl           2-(1,3-Dioxan-2-yl)ethyl         i-Pr         2,4-diF-Phenyl           2-(1,3-Dioxan-2-yl)ethyl         i-Pr         2,4-diF-Phenyl           Ethoxymethyl

511	PhCOCH(CH <sub>3</sub> )	i-Pr	2,4-diF-Phenyl	il*
512	Et <sub>2</sub> NC(O)CH <sub>2</sub>	<i>i</i> -Pr	2,4-diF-Phenyl	oil*
513	MeO <sub>2</sub> CCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	i-Pr	2,4-diF-Phenyl	oil*
514	i-(3-Chloro-2-butenyi)	i-Pr	2,4-diF-Phenyi	oil*
515	1-(3-Methyl-2-butenyl)	<i>i-</i> Pr	2,4-diF-Phenyl	oil*
516	1-(4-Pentenyl)	<i>i-</i> Pr	2,4-diF-Phenyl	oil*
517	CH <sub>3</sub> C(O)CH(CH <sub>3</sub> )	i-Pr	2,4-diF-Phenyl	oil*
518	Trimethylsilylmethyl	<i>i-</i> Pr	2,4-diF-Phenyl	oil*
519	1-(2-Ethoxy-3-ethoxycarbonyl- 2-propenyl)	<i>i-</i> Pr	2,4-diF-Phenyl	oil*
520	PhCH <sub>2</sub> OCH <sub>2</sub>	í-Pr	2,4-diF-Phenyl	oil*
521	Cyclobutylmethyl	<i>i</i> -Pr	2,4-diF-Phenyl	oil*
522	1-(4-Fluorobutyl)	i-Pr	2,4-diF-Phenyl	oil*
523	1-(2-Pentenyl)	i-Pr	2,4-diF-Phenyl	oil*
524	CH <sub>2</sub> CH <sub>2</sub> C(O)CH <sub>2</sub>	i-Pr	2,4-diF-Phenyl	oil*
525	1-(3,3,3-Trifluoropropyl)	i-Pr	2,4-diF-Phenyl	oil*
526	1-(4,4,4-Trifluorobutyl)	i-Pr	2,4-diF-Phenyl	oil*
527	n-Butyl	i-Pr	4-Cl-Phenyl	oil*
528	n-Pentyl	i-Pr	4-Cl-Phenyl	oil*
529	n-Hexyl	i-Pr	4-Cl-Phenyl	oil*
530	1-(3-Fluoropropyl)	i-Pr	4-Cl-Phenyl	oil*
531	2-(1,3-Dioxolan-2-yl)ethyl	i-Pr	4-Cl-Phenyl	oil*
532	2-(1,3-Dioxan-2-yl)ethyl	i-Pr	4-Cl-Phenyl	oil*
533	Methoxymethyl	i-Pr	4-Cl-Phenyl	oil*
534	Ethoxymethyl	i-Pr	4-Cl-Phenyl	oil*
535	CH3OCH2CH2OCH2	<i>i-</i> Pr	4-Cl-Phenyl	oil*
536	1-(4-Acetoxybutyl)	i-Pr	4-Cl-Phenyl	oil*
537	1-(3,4,4-Trifluoro-3-butenyl)	<i>i-</i> Pr	4-Cl-Phenyl	oil*
538	1-(2-Phenylethyl)	i-Pr	4-Cl-Phenyl	oil*
539	Cyclopropylmethyl	í-Pr	4-Cl-Phenyl	oil*
540	(3,5-Dimethyloxazol-4-	i-Pr	4-Cl-Phenyl	oil*
	yl)methyl			
541	PhCOCH(CH <sub>3</sub> )	i-Pr	4-Cl-Phenyl	oil*
542	Et <sub>2</sub> NC(O)CH <sub>2</sub>	í-Pr	4-Cl-Phenyl	il*
543	MeO <sub>2</sub> CCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	<i>i-</i> Pr	4-Cl-Phenyl	oil*

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544	1-(3-Chloro-2-butenyl)	i-Pr	4-Cl-Phenyl	oil*
545	1-(3-Methyl-2-butenyl)	i-Pr	4-Cl-Phenyl	oil*
546	1-(4-Pentenyl)	<i>i-</i> Pr	4-Cl-Phenyl	oil*
547	CH <sub>3</sub> C(O)CH(CH <sub>3</sub> )	<i>i-</i> Pr	4-Cl-Phenyl	oil*
548	Trimethylsilylmethyl	i-Pr	4-Cl-Phenyl	oil*
549	1-(2-Ethoxy-3-ethoxycarbonyl-	<i>i-</i> Pr	4-Cl-Phenyl	oil*
	2-propenyl)			
550	Cyclobutylmethyl	<i>i-</i> Pr	4-Cl-Phenyl	oil*
551	1-(4-Fluorobutyl)	i-Pr	4-Cl-Phenyl	oil*
552	1-(2-Pentenyl)	i-Pr	4-Cl-Phenyl	oil*
553	CH <sub>3</sub> CH <sub>2</sub> C(O)CH <sub>2</sub>	i-Pr	4-Cl-Phenyl	oil*
554	1-(3,3,3-Trifluoropropyl)	i-Pr	4-Cl-Phenyl	oil*
555	1-(4,4,4-Trifluorobutyl)	i-Pr	4-Ci-Phenyl	oil*
556	n-Butyl	i-Pr	Phenyl	oil*
557	n-Pentyl	i-Pr	Phenyl	oil*
558	n-Hexyl	i-Pr	Phenyl	oil*
559	1-(3-Fluoropropyl)	i-Pr	Phenyl	oil*
560	2-(1,3-Dioxolan-2-yl)ethyl	i-Pr	Phenyl	oil*
561	2-(1,3-Dioxan-2-yl)ethyl	i-Pr	Phenyl	oil*
562	Methoxymethyl	i-Pr	Phenyl	oil*
563	Ethoxymethyl	i-Pr	Phenyl	oil*
564	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub>	i-Pr	Phenyl	oil*
565	1-(4-Acetoxybutyl)	i-Pr	Phenyl	oil*
566	1-(3,4,4-Trifluoro-3-butenyl)	i-Pr	Phenyl	oil*
567	1-(2-Phenylethyl)	i-Pr	Phenyl	oil*
568	Cyclopropylmethyl	i-Pr	Phenyl	oil*
569	(3,5-Dimethyloxazol-4-	i-Pr	Phenyl	oil*
	yl)methyl			
570	PhCOCH(CH <sub>3</sub> )	i-Pr	Phenyl	oil*
571	Et <sub>2</sub> NC(O)CH <sub>2</sub>	i-Pr	Phenyl	oil*
572	MeO <sub>2</sub> CCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	i-Pr	Phenyl	oil*
573	1-(3-Chloro-2-butenyi)	i-Pr	Phenyl	oil*
574	1-(3-Methyl-2-butenyl)	<i>i</i> -Pr	Phenyl	oil*
575	1-(4-Pentenyl)	i-Pr	Phenyl	oil*
576	CH <sub>3</sub> C(O)CH(CH <sub>3</sub> )	<i>i-</i> Pr	Phenyl	oil*

		<del></del>		
577	Trimethylsilylmethyl	<i>i</i> -Pr	Phenyl	oil*
578	1-(2-Ethoxy-3-ethoxycarbonyl-	i-Pr	Phenyl	oil*
	2-propenyl)			
579	PhCH <sub>2</sub> OCH <sub>2</sub>	<i>i-</i> Pr	Phenyl	oil*
580	Cyclobutylmethyl	<i>i</i> -Pr	Phenyl	oil*
581	1-(4-Fluorobutyl)	i-Pr	Phenyl	oil*
582	1-(2-Pentenyl)	i-Pr	Phenyl	oil*
583	CH <sub>3</sub> CH <sub>2</sub> C(O)CH <sub>2</sub>	i-Pr	Phenyi	oil*
584	1-(3,3,3-Trifluoropropyl)	i-Pr	Phenyl	oil*
585	1-(4,4,4-Trifluorobutyl)	i-Pr	Phenyl	oil*
586	Me <sub>2</sub> NC(O)CH <sub>2</sub>	i-Pr	4-F-Phenyl	117
587	(EtO) <sub>2</sub> P(O)CH <sub>2</sub>	i-Pr	4-F-Phenyl	oil*
588	Me <sub>2</sub> NC(O)CH <sub>2</sub>	i-Pr	Phenyl	152
589	I-(2-Ethyl-4-methylthiazol-5-	i-Pr	2,4-diF-Phenyl	87-90
	yl)ethyl			<u>                                     </u>
590	1-(2-Ethyl-4-methylthiazol-5-	<i>i-</i> Pr	4-Cl-Phenyl	93-97
	yl)ethyl	·		<u> </u>
591	1-(2-Nitroethyl)	i-Pr	2,4-diF-Phenyl	92-98
592	1-(1-Methoxyethyl)	i-Pr	4-Cl-Phenyl	oil*
593	1-(1-Methoxyethyl)	i-Pr	2,4-diF-Phenyl	oil*
594	2-(3-Bromopropyl)	i-Pr	2,4-diF-Phenyl	oil*
595	2-(1,3-Difluoropropyl)	<i>i-</i> Pr	2,4-diF-Phenyl	91-96
596	2-(3-Acetoxy-1-chloropropyl)	i-Pr	4-F-Phenyl	oil*
597	F <sub>3</sub> CC(O)CH <sub>2</sub>	i-Pr	4-Cl-Phenyl	oil*
598	F3CC(O)CH2	i-Pr	2,4-diF-Phenyl	oil*
599	(EtO) <sub>2</sub> P(O)CH <sub>2</sub>	i-Pr	4-Cl-Phenyl	oil*
600	Allyl	2-(3-OMe-propyl)	2,6-DiMe-Phenyl	oil*
601	(5,6-Dihydro-1,2-Oxazin-3-	<i>i</i> -Pr	4-F-Phenyl	108-112
	yl)methyl			
602	(5,6-Dihydro-1,2-Oxazin-3-	i-Pr	2,4-diF-Phenyl	87-95
	yl)methyl			
603	1-(2-Nitropropyl)	i-Pr	2,4-diF-Phenyl	oil*
604	1-(2-Nitropropyl)	<i>i</i> -Pr	Phenyl	oil*
605	1-(2-(6-Chloro-2-pyridyl)-2-	<i>i</i> -Pr	Phenyl	il*
	propenyl)			

606	1-(2-(4-Fluorophenyl)-2-	i-Pr	Phenyl	oil*
	propenyl)	İ		
607	1-(2-Methyl-2-propenyl)	i-Pr	Phenyl	oil*
608	1-(2-Chlorol-2-propenyl)	i-Pr	Phenyl	oil*
609	2-(3-Butynyi)	i-Pr	Phenyl	oil*
610	s-Butyl (R)	i-Pr	Phenyl	53-55
611	s-Butyl (S)	i-Pr	Phenyl	55-57
612	s-Butyl (S)	i-Pr	Phenyl	41-43
613	s-Butyl (R)	i-Pr	4-F-Phenyl	41-43
614	EtO <sub>2</sub> CCH <sub>2</sub> CH(CO <sub>2</sub> Et)	i-Pr	Phenyl	oil*
615	EtO <sub>2</sub> CCH <sub>2</sub> CH(CO <sub>2</sub> Et)	i-Pr	4-F-Phenyl	oil*
616	MeO <sub>2</sub> CCH(CH <sub>3</sub> )	i-Pr	4-F-Phenyl	oil*
617	(EtO) <sub>2</sub> P(O)CH(CH <sub>3</sub> )	<i>i-</i> Pr	4-F-Phenyl	oil*
618	Thiocyanatomethyl	i-Pr	4-F-Phenyl	125-127
619	PhC(O)NHCH <sub>2</sub>	<i>i-</i> Pr	2,4-diF-Phenyl	120-123
620	PhC(O)NHCH <sub>2</sub>	i-Pr	Phenyl	145-146
621	MeC(O)NHCH <sub>2</sub>	i-Pr	Phenyl	122-126
622	MeC(O)NHCH <sub>2</sub>	í-Pr	2,4-diF-Phenyl	173-175
623	MeO <sub>2</sub> CCH(CH <sub>3</sub> )	<i>i</i> -Pr	4-Cl-Phenyl	oil*
624	(2-Tetrahydropyranyl)methyl	i-Pr	4-F-Phenyl	80-82
625	CH <sub>3</sub> C(O)N(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>2</sub>	i-Pr	4-F-Phenyl	112-126
626	1-(2-Fluoroethyl)	i-Pr	4-F-Phenyl	95-96
627	1-(2-Methoxyethyl)	i-Pr	4-F-Phenyl	oil*
628	1-(2-Methoxyethyl)	i-Pr	2,4-diF-Phenyl	94-97
629	1-(2,2-Diethoxyethyl)	i-Pr	4-F-Phenyl	oil*
630	1-(2,2-Diethoxyethyl)	i-Pr	2,4-diF-Phenyl	84-88
631	1-(2-Methoxyethyl)	i-Pr	Phenyl	oil*
632	1-(2,2-Diethoxyethyl)	i-Pr	Phenyl	oil*
633	1-(2,2-Diethoxyethyl)	i-Pr	4-Ci-Phenyi	73-75
634	1-(2-Chloro-2-propenyl)	i-Pr	2,4-diF-Phenyl	oil*
635	n-Butyl	i-Pr	2,4-diF-Phenyl	oil*
636	n-Pentyl	i-Pr	2,4-diF-Phenyl	oil*
637	n-Hexyl	i-Pr	2,4-diF-Phenyl	oil*_
638	Me <sub>2</sub> NC(O)CH <sub>2</sub> CH <sub>2</sub>	i-Pr	4-F-Phenyl	100

639	c-PrC(O)CH <sub>2</sub>	i-Pr_	4-Cl-Phenyl	oil*
640	c-BuC(O)CH₂	<i>i-</i> Pr	4-F-Phenyl	oil*
641	c-BuC(O)CH <sub>2</sub>	i-Pr	Phenyl	115-117
642	c-BuC(O)CH <sub>2</sub>	i-Pr	2,4-diF-Phenyl	oil*
643	c-BuC(O)CH <sub>2</sub>	i-Pr	4-Cl-Phenyi	oil*
644	(EtO) <sub>2</sub> P(O)CH(CH <sub>3</sub> )	i-Pt	4-Cl-Phenyl	oil*
645	(2-Chloro-1,3,4-thiadiazol-5-	i-Pr	2,4-diF-Phenyl	106-109
646	yl)methyl (2-Chloro-1,3,4-thiadiazol-5- yl)methyl	i-Pr	4-F-Pḥenyl	110-112
647	1-(3-Cyanopropyl)	i-Pr	4-F-Phenyl	oil*
648	1-(2-t-Butyl-2-propenyl)	i-Pr	Phenyl	oil*
649	1-(2-i-Propyl-2-propenyl)	i-Pr	Phenyl	oil*
650	1-(2-Benzyl-2-propenyl)	i-Pr	Phenyl	oil*
651	2-(3-Carbomethoxy-3-butenyl)	i-Pr	Phenyl	oil*
652	1-(1-Ethynyl-3-methyl-2-	i-Pr	Phenyl	oil*
653	butenyl) (2-Chloro-1,3,4-thiadiazol-5- yl)methyl	<i>i</i> -Pr	4-Cl-Phenyl	oil*
654	(2-Chloro-1,3,4-thiadiazol-5- yl)methyl	i-Pr	Phenyl	oil*
655	2-(4-Ethynyl-2-methyl-3- butenyl)	i-Pr	Phenyl	oil*
656	2-(5,6-Dihydro-1,2-Oxazin-3- yl)ethyl	i-Pr	4-F-Phenyl	oil*
657	2-(3-Butynyl)	i-Pr	2,4-diF-Phenyl	oil*
658	2-(3-Butynyl)	i-Pr	4-Cl-Phenyl	oil*
659	(2-Tetrahydropyranyl)methyl	i-Pr	Phenyl	97-100
660	(2-Tetrahydropyranyl)methyl	i-Pr	4-Cl-Phenyl	82-84
661	(3,4-Dihydroisoxazol-3-	i-Pr	4-Cl-Phenyl	105-10
662	yl)methyl (MeO) <sub>2</sub> P(O)CH <sub>2</sub> CH <sub>2</sub>	i-Pr	4-F-Phenyl	79-85
663	i-Propyl	<i>i-</i> Pr	4-Pyridyl	85-89
664	s-Butyl (S)	i-Pr	4-Cl-Phenyl	53-56
665	s-Butyl (R)	<i>i-</i> Pr	4-Cl-Phenyl	54-56
666	s-Butyl (S)	i-Pr	2,4-diF-Phenyl	59-61

667	s-Butyl (R)	i-Pr	2,4-diF-Phenyl	58-60
668	1-(2-Fluoroethyl)	i-Pr	4-Cl-Phenyl	120-121
669	1-(2-Fluoroethyl)	i-Pr	Phenyl	88-89
670	1-(2-Fluoroethyl)	i-Pr	2,4-diF-Phenyl	90-91
671	Me <sub>2</sub> NC(O)CH <sub>2</sub> CH <sub>2</sub>	i-Pr	Phenyl	91
672	2-(1,3-Dichloropropyl)	i-Pr	4-F-Phenyl	oil*
673	1-(2,2-Dichloroethyl)	i-Pr	2,4-diF-Phenyl	121-122
674	i-(3-Cyanopropyl)	i-Pr	Phenyl	89-92
675	1-(3-Cyanopropyl)	i-Pr	2,4-diF-Phenyl	oil*
676	(3,4-Dihydroisoxazol-3-	<i>i</i> -Pr	2,4-diF-Phenyl	66-68
	yl)methyl			<u> </u>
677	PhCH(CO <sub>2</sub> Me)	i-Pr	4-F-Phenyl	oil*
678	HOCH <sub>2</sub> CH <sub>2</sub> CH(CO <sub>2</sub> Me)	<i>i</i> -Pr	Phenyl	120-123
679	HOCH <sub>2</sub> CH <sub>2</sub> CH(CO <sub>2</sub> Me)	i-Pr	4-Cl-Phenyl	107-110
680	HOCH <sub>2</sub> CH <sub>2</sub> CH(CO <sub>2</sub> Me)	i-Pr	4-F-Phenyl	102-106
681	EtO <sub>2</sub> CCH <sub>2</sub> CH(CO <sub>2</sub> Et)	i-Pr	4-Cl-Phenyl	oil*
682	(1-Ethyl-5-Chloropyrazol-4-	i-Pr	2,4-diF-Phenyl	oil*
<u></u>	yl)methyl			
683	(1-Ethyl-5-Chloropyrazol-4-	i-Pr	Phenyl	oil*
	yl)methyl	ļ		
684	(1-Ethyl-5-Chloropyrazol-4-	i-Pr	4-Cl-Phenyl	oil*
	yl)methyl			
685	(1-Ethyl-5-Chloropyrazol-4-	i-Pr	4-F-Phenyl	oil*
	yl)methyl			
686	1-(1-Ethyl-5-Chloropyrazol-4-	i-Pr	4-F-Phenyl	oil*
	yl)ethyl			
687	Me <sub>2</sub> NC(O)CH <sub>2</sub> CH <sub>2</sub>	<i>i</i> -Pr	2,4-diF-Phenyl	oil*
688	i-Propyl	s-Butyl (S)	4-F-Phenyl	59-61
689	i-Propyl	s-Butyl	4-F-Phenyl	74-75
690	i-Propyl	s-Butyl (R)	4-F-Phenyl	64-65
691	i-Propyl	i-Pr	4-Br-Phenyl	75-76
692	3-Cyclohexenyl	i-Pr	4-F-Phenyl	80-82
693	HC(O)CH(CH <sub>3</sub> )	i-Pr	Phenyl	oil*
694	3-Cyclohexenyl	i-Pr	2,4-diF-Phenyl	oil*
695	3-Cyclohexenyl	i-Pr	4-Cl-Phenyl	87-89

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696	3-Cyclohexenyl	i-Pr	Phenyl	oil*
697	(MeO) <sub>2</sub> P(O)CH <sub>2</sub> CH <sub>2</sub>	i-Pr	Phenyl	oil*
698	(MeO) <sub>2</sub> P(O)CH <sub>2</sub> CH <sub>2</sub>	i-Pr	4-Cl-Phenyl	oil*
699	1-(Cyclopropyl)ethyl	i-Pr	Phenyl	65-67
700	1-(Cyclopropyl)ethyl	<i>i</i> -Pr	4-Cl-Phenyl	52-54
701	1-(Cyclobutyl)ethyl	i-Pr	4-Cl-Phenyl	oil*
702	1-(Cyclobutyl)ethyl	i-Pr	2,4-diF-Phenyl	oil*
703	1-(Morpholinocarbonyl)ethyl	<i>i</i> -Pr	4-Cl-Phenyl	163
704	Me <sub>2</sub> NC(S)CH(CH <sub>3</sub> )	<i>i</i> -Pr	Phenyl	141
705	1-(Morpholinocarbonyl)ethyl	i-Pr	4-F-Phenyl	oil*
706	(3,4-Dihydroisoxazol-3-	i-Pr	Phenyl	oil*
	yl)methyl			
707	2-(1-Chloro-3-fluoropropyl)	i-Pr	4-F-Phenyl	85-86
708	2-(1-Acetoxy-3-chloropropyl)	i-Pr	2,4-diF-Phenyl	oil*
709	Fluoromethyl	i-Pr	4-F-Phenyl	126-127
710	2,2-Difluoroethyl	i-Pr	4-F-Phenyl	94-96
711	2,2-Difluoroethyl	i-Pr	2,4-diF-Phenyl	105-108
712	I-(4-Chlorobutyl)	i-Pr	4-F-Phenyl	oil*
713	1-(3-Chloropropyl)	i-Pr	4-F-Phenyl	oil*
714	1-(2-Chloropropyl) (S)	i-Pr	2,4-diF-Phenyl	oil*
715	(2-Tetrahydropyranyl)methyl	i-Pr	2,4-diF-Phenyl	oil*
716	(2-Phenyl-1,3,4-oxadiazol-5-	i-Pr	Phenyl	130-132
	yl)methyl			
717	1-(Cyclobutyl)ethyl	i-Pr	Phenyl	oil*
718	1-(Cyclobutyl)ethyl	<i>i</i> -Pr	4-F-Phenyl	oil*
719	Me <sub>2</sub> NC(O)CH <sub>2</sub> CH <sub>2</sub>	i-Pr	4-Cl-Phenyl	82-83
720	1-(Cyclopropyl)ethyl	i-Pr	2,4-diF-Phenyl	oil*
721	1-(3,4-Dihydroisoxazol-3-	i-Pr	4-F-Phenyl	oil*
	yl)ethyl			
722	(5-Phenyl-1, 2, 5-oxadiazol-2-	i-Pr	Phenyl	120-121
	yl)methyl			
723	PhCH(CO₂Me)	i-Pr	Phenyl	oil*
724	PhCH(CO₂Me)	i-Pr	4-Cl-Phenyl	oil*
725	1-(2-Chloro-1-methoxyethyl)	i-Pr	4-Cl-Phenyl	oil*
726	1-(1,2-Dimethoxyethyl)	i-Pr	4-Cl-Phenyl	oil*

727	CH₃C(O)NHCH₂CH₂	i-Pr	4-F-Phenyl	il*
728	Me <sub>2</sub> NC(S)CH(CH <sub>3</sub> )	i-Pr	4-F-Phenyl	130
729	1-(3,4-Dihydroisoxazol-3- yl)ethyl	i-Pr	Phenyl	oil*
730	1-(3,4-Dihydroisoxazol-3- yl)ethyl	i-Pr	2,4-diF-Phenyl	oil*
731	1-(2-(6-Chloro-2-pyridyl)-2- propenyl)	i-Pr	Phenyl	oii*
732	1-(2-Carbomethoxy-2-propenyl)	i-Pr	4-F-Phenyl	oil*
733	Me <sub>2</sub> NC(S)CH(CH <sub>3</sub> )	i-Pr	4-Cl-Phenyl	136
734	1-(1,2-Dimethoxyethyl)	i-Pr	Phenyl	oil*
735	1-(2-Chloro-1-methoxyethyl)	i-Pr	Phenyl	oil*
736	(EtO) <sub>2</sub> P(O)CH <sub>2</sub>	i-Pr	2,4-diF-Phenyl	113-115
737	1-(2-Chloro-1-methoxyethyl)	i-Pr	2,4-diF-Phenyl	oil*
738	1-(1,2-Dimethoxyethyl)	<i>i</i> -Pr	2,4-diF-Phenyl	oil*
739	Me <sub>2</sub> NC(S)CH(CH <sub>3</sub> )	i-Pr	2,4-diF-Phenyl	107
740	(5,6-Dihydro-1,2,4-Dioxazin-3-yl)methyl	i-Pr	4-Cl-Phenyl	107
741	PhCON(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>2</sub>	i-Pr	4-F-Phenyl	141-146
742	1-(1-Ethoxypropyl)	<i>i-</i> Pr	4-F-Phenyl	oil*
743	Propargyl	<i>i-</i> Pr	4-F-Phenyl	oil*
744	1-(3-Butynyl)	i-Pr	2,4-diF-Phenyl	oil*
745	2,2-Difluoroethyl	i-Pr	4-Cl-Phenyl	104-107
746	2,2-Difluoroethyl	i-Pr	Phenyl	oil*
747	1-(2-Chloropropyl) (S)	i-Pr	Phenyl	oil*
748	1-(2-Chloropropyl) (S)	i-Pr	4-Cl-Phenyl	oil*
749	1-(3-Chloropropyi)	i-Pr	4-Cl-Phenyl	68-72
750	1-(3-Chloropropyl)	<i>i</i> -Pr	Phenyl	oil*
751	s-Butyl	i-Pr	4-F-Phenyl	42-44
752	1-(3-Bromo-2-methylpropyl)	i-Pr	4-F-Phenyl	96-100
753	3-(4-Pentynyl)	i-Pr	4-F-Phenyi	oil*
754	Propargyl	i-Pr	Phenyl	75-76
755	Bromomethyl	i-Pr	Phenyl	82-84
756	l-(4,5-Dimethylthiazol-2- yl)ethyl	i-Pr	Phenyl	101-104

757	1-(4,5-Dimethylthiazol-2- yl)ethyl	i-Pr	4-F-Phenyl	103-105
758	(5,6-Dihydro-1,2,4-Dioxazin-3-yl)methyl	i-Pr	2,4-diF-Phenyl	oil*
759	l-(3,4-Dihydroisoxazol-3- yl)ethyl	i-Pr	4-Cl-Phenyl	oil*
760	(5,6-Dihydro-6-OMe-1,2- oxazin-3-yl)methyl	i-Pr	4-Cl-Phenyl	107-109
761	PhCON(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>2</sub>	i-Pr	Phenyl	124-127
762	PhCON(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>2</sub>	i-Pr	2,4-diF-Phenyl	106-108
763	2-(3-Butynyl)	i-Pr	4-F-Phenyl	oil*
764	Propargyl	<i>i</i> -Pr	2,4-diF-Phenyl	oil*
765	(5,6-Dihydro-1,2,4-Dioxazin-3-yl)methyl	i-Pr	4-F-Phenyl	oil*
766	(Dihydro-6-OMe-1,2-oxazin-3-yl)methyl	i-Pr	4-F-Phenyl	oil*
767	1-(3-Butynyl)	i-Pr	4-F-Phenyl	oil*
768	1-(3-Butynyl)	i-Pr	Phenyl	oil*
769	(5-i-Propyl-1, 2, 5-oxadiazol-2-yl)methyl	i-Pr	Phenyl	oil*
770	(5-c-Hexyl-1, 2, 5-oxadiazol-2-yl)methyl	i-Pr	Phenyl	106-108
771	i-Propyl	i-Pr	2-Cl-5-Pyridiyl	oil*
772	1-(1-Ethoxypropyl)	i-Pr	4-Cl-Phenyl	oil*
773	1-(1-Ethoxypropyl)	i-Pr	Phenyl	oil*
774	1-(1-Ethoxypropyl)	i-Pr	2,4-diF-Phenyl	oil*
775	CH <sub>3</sub> O <sub>2</sub> CN(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>2</sub>	i-Pr	Phenyl	oil*
776	(EtO) <sub>2</sub> P(O)CH(CH <sub>3</sub> )	i-Pr	2,4-diF-Phenyl	oil*
777	(CH <sub>3</sub> O) <sub>2</sub> P(O)CH <sub>2</sub> CH <sub>2</sub>	i-Pr	2,4-diF-Phenyl	oil*
778	CH <sub>3</sub> O <sub>2</sub> CN(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>2</sub>	i-Pr	2,4-diF-Phenyl	oil*
779	CH <sub>3</sub> O <sub>2</sub> CN(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>2</sub>	i-Pr	4-Cl-Phenyl	oil*
780	i-Propyl	i-Pr	4-OMe-Phenyl	93-94
781	1-(3-Methyl-3-nitropropyl)	i-Pr	2,4-diF-Phenyl	118-120
782	1-(3, 3-Dichloro-2-propenyl)	i-Pr	4-F-Phenyl	oil*
783	3-(4-Pentynyl)	i-Pr	2,4-diF-Phenyl	oil*

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784	Propargyl	i-Pr	4-Cl-Phenyl	oil*
785	1-(4,5-Dimethylthiazol-2-	i-Pr	2,4-diF-Phenyl	oil*
	yl)ethyl			
786	Pyrrolidinothiocarbonylmethyl	i-Pr	2,4-diF-Phenyl	68
787	Pyrrolidinothiocarbonylmethyl	i-Pr	4-Cl-Phenyl	144
788	Pyrrolidinothiocarbonylmethyl	i-Pr	Phenyl	117
789	Pyrrolidinothiocarbonylmethyl	i-Pr	4-F-Phenyl	142
790	2-(3-Methoximinopropyl)	i-Pr	Phenyl	82-87
791	1-(4-Chlorobutyl)	<i>i-</i> Pr	4-Cl-Phenyl	103-109
792	1-(4-Chlorobutyl)	i-Pr	Phenyl	oil*
793	4-Cyclohexenyl	i-Pr	4-F-Phenyl	107-108
794	1-(2-Bromoethyl)	i-Pr	4-F-Phenyl	105-106
795	1-(2-Bromoethyl)	i-Pr	2,4-diF-Phenyl	77-80
796	1-(2-Bromoethyl)	i-Pr	4-Cl-Phenyl	85-87
797	(Pinenyl)methyl	i-Pr	Phenyl	oil*
798	i-Propyl	i-Pr	(3,5-Dimethylisoxazol-4-	oil*
_			yl)methyl	
799	1-(2,2-Dimethylcyclopropyl)	i-Pr	4-F-Phenyl	69-72
800	1-(2,2-Dimethylcyclopropyl)	i-Pr	Phenyl	oil*
801	1-(2,2-Dimethylcyclopropyl)	i-Pr	4-Cl-Phenyl	oil*
802	1-(2,2-Dimethylcyclopropyl)	i-Pr	2,4-diF-Phenyl	oil*
803	3-(4-Pentynyl)	<i>i-</i> Pr	Phenyl	oil*
804	1-(3-Butynyl)	i-Pr	4-Cl-Phenyl	oil*
805	2-(1,3-Dibromopropyl)	i-Pr	4-F-Phenyl	oil*
806	1-(3-Bromo-2,2-	i-Pr	4-F-Phenyl	122-126
	dimethylpropyl)			
807	(5,6-Dihydro-6-methoxy-1,2-	i-Pr	2,4-diF-Phenyl	110-115
	oxazin-3-yl)methyl			
808	3-(4-Pentynyl)	i-Pr	4-Cl-Phenyl	oil*
809	(5,6-Dihydro-6-methoxy-1,2-	i-Pr	Phenyl	96-98
	oxazin-3-yl)methyl			
810	1-(4,5-Dihydro-5-	i-Pr	4-F-Phenyl	oil*
	methoxyisoxazol-3-yl)ethyl			 
811	1-(4,5-Dihydroisoxazol-5-	i-Pr	4-F-Phenyl	oil*
	yl)ethyl	•	i	

<del></del>		<del></del>		
812	1-(4,5-Dihydro-5-	i-Pr	Phenyl	oil*
	methoxyisoxazol-3-yl)ethyl			
813	<i>i</i> -Pr	c-PrCH <sub>2</sub>	4-F-Phenyl	76 -77
814	1-(4,5-Dihydroisoxazol-5-	<i>i-</i> Pr	4-Cl-Phenyl	oil*
	yl)ethyl	<u> </u>		<u> </u>
815	1-(4,5-Dihydroisoxazol-5-	i-Pr	2,4-diF-Phenyl	oil*
	yl)ethyl		`	
816	1-(4,5-Dihydroisoxazol-5-	<i>i</i> -Pr	Phenyl	oil*
	yl)ethyl			l
817	2-(1,1,1-Trifluoropropyl)	í-Pr	2,4-diF-Phenyl	oil*
818	3-(1-Trimethylsilylpropyl)	i-Pr	4-F-Phenyl	oil
819	1-(2,3-Epoxy-2-methylpropyl)	i-Pr	4-F-Phenyl	oil*
	(R)			
820	1-(2,3-Epoxy-2-methylpropyl)	i-Pr	4-F-Phenyl	78 - 80
	(S)			
821	(MeO <sub>2</sub> C) <sub>2</sub> CH	i-Pr	Phenyl	oil
822	1-(3-Chloropropyl)	i-Pr	2,4-diF-Phenyl	oil*
823	1-(4-Chlorobutyl)	i-Pr	2,4-diF-Phenyl	oil*
824	2-(3-Chloro-3-methoxypropyl)	i-Pr	Phenyl	oil*
825	2-(3-Chloro-3-methoxypropyl)	i-Pr	4-F-Phenyl	oil*
826_	1-(2,2-Dichloroethyl)	i-Pr	4-F-Phenyl	95 - 98
827	1-(2-Butynyl)	i-Pr	2,4-diF-Phenyl	131 - 132
828	1-(2-Butynyl)	i-Pr	4-F-Phenyl	115 -
				116.5
829	i-Pr	i-Pr	(5-t-Butyl-1,2,4-oxadiazol-	oil*
			3-yl)methyl	
830	1-(2-Butynyl)	i-Pr	4-Cl-Phenyl	24 - 25
831	1-(2-Cyclopropylethyl)	i-Pr_	4-F-Phenyl	70 - 72
832	1-(2-Cyclopropylethyl)	i-Pr	Phenyl	70 - 72
833	l-(2-Butynyl)	i-Pr	Phenyl	90.5 - 92
834	1-(1,3-Dioxolan-2-yl)ethyl	i-Pr	4-F-Phenyl	104 - 107
835	l-(1,3-Dioxan-2-yl)ethyl	i-Pr	4-F-Phenyl	94 - 96
836	1-(5,5-Dimethyl-1,3-dioxan-2-	i-Pr	4-F-Phenyl	90 - 93
	yi)ethyi			
837	1-(1,3-Dioxepin-5-en-2-yl)ethyl	i-Pr	4-F-Phenyl	oil*

838	i-Pr	i-Pr	2,6-DiF-Phenyl	80 - 83
839	i-Pr	<i>i</i> -Pr	2,3-DiF-Phenyl	oil*
840	i-Pr	Et	4-F-Phenyl	oil*
841	2-(3-Butenyl)	i-Pr	4-Cl-Phenyi	oil*
842	2-(3-Butenyl)	i-Pr	2,4-diF-Phenyl	oil*
843	2-(3-Butenyl)	i-Pr	Phenyi	oil*
844	1-(3-Methylenecyclobutane)	i-Pr	4-F-Phenyl	60 - 61
845	1-(3-Methylenecyclobutane)	i-Pr	2,4-diF-Phenyl	oil*
846	1-(3-Methylenecyclobutane)	i-Pr	Phenyl	oil*
847	1-(3-Methylenecyclobutane)	i-Pr	4-Cl-Phenyl	81 - 84
848	3-Cyclopentene	i-Pr	4-F-Phenyl	71 - 74
849	HC(O)CH(CH <sub>3</sub> )	i-Pr	4-Cl-Phenyl	oil*
850	HC(O)CH(CH <sub>3</sub> )	i-Pr	Phenyl	oil*
851	(3-Chloro-1-methylpyrazol-4-	i-Pr	4-F-Phenyl	105 - 107
	yl)methyl			
852	(3-Chloro-1-methylpyrazol-4-	<i>i</i> -Pr	4-Cl-Phenyl	oil*
	yl)methyl			
853	(3-Chloro-1-methylpyrazol-4-	i-Pr	Phenyl	oil*
	yl)methyl			
854	(3-Chloro-1-methylpyrazol-4-	i-Pr	2,4-diF-Phenyl	oil*
ļ	yl)methyl			
855	(1-Methyl-5-chloro-3-	<i>i-</i> Pr	Phenyl	152 - 154
	trifluoromethylpyrazol-4-			
	yl)methyl			
856	(1-Methyl-5-chloro-3-	i-Pr	4-F-Phenyl	148 - 149
	trifluoromethylpyrazol-4-			
	yi)methyl			
857	(1-Methyl-5-chloro-3-	i-Pr	2,4-diF-Phenyl	112 - 114
	trifluoromethylpyrazol-4-			
	yl)methyl			<b> </b>
858	(1-Methyl-5-chloro-3-	í-Pr	4-Cl-Phenyl	132 - 136
	trifluoromethylpyrazol-4-			
	yl)methyl			
859	(1-Methyl-4-bromopyrazol-3-	i-Pr	Phenyl	161 - 165
	yl)methyl			

860	(1-Methyl-4-bromopyrazol-3- yl)methyl	i-Pr	4-F-Phenyl	124 - 132
861	1-(1-Methyl-4-bromopyrazol-3- yl)ethyl	i-Pr	Phenyl	123 - 124
862	l-(l-Methyl-4-bromopyrazol-3- yl)ethyl	i-Pr	4-F-Phenyl	122 - 124
863	(1-Methyl-4-bromopyrazol-3-yl)methyl	i-Pr	4-Ci-Phenyl	147 - 150
864	l-(1-Methyl-4-bromopyrazol-3- yl)ethyl	i-Pr	4-Cl-Phenyl	119 - 121
865	(1-Methyl-4-bromopyrazol-3- yl)methyl	i-Pr	2,4-diF-Phenyl	116 - 117
866	1-(1-Methyl-4-bromopyrazol-3- yl)ethyl	i-Pr	2,4-diF-Phenyl	oil*
867	Cyclooctyl	i-Pr	4-F-Phenyl	81 - 84
868	i-Pr	2-(3-MeO-propyl)	Phenyl	73 - 77
869	i-Pr	2-(3-MeO-propyl)	4-F-Phenyl	119 - 125
870	<i>i</i> -Pr	2-(3-MeO-propyi)	4-Cl-Phenyl	76 - 81
871	2-(3-Chloro-3-methoxypropyl)	i-Pr	4-Cl-Phenyl	oil*
872	2-(3-Chloro-3-methoxypropyl)	i-Pr	2,4-diF-Phenyl	oil*
873	1-(2,2-Dichloroethyl)	<i>i-</i> Pr	4-Cl-Phenyl	80 - 88
874	1-(2,2-Dichloroethyl)	<i>i-</i> Pr	Phenyl	95 - 96
875	1-(2-Chloropropyl) (S)	i-Pr	4-F-Phenyl	55 - 60
876	2-(1,1,1-Trifluoropropyl)	<i>i-</i> Pr	4-Cl-Phenyl	-
877	Cyclooctyl	i-Pr	Phenyl	50 - 58
878	i-Pr	Allyl	Phenyl	58 - 60
879	Cyclooctyl	<i>i</i> -Pr	4-Cl-Phenyl	99 - 103
880	Cycloactyl	i-Pr	2,4-diF-Phenyl	89 - 93
881	Me <sub>2</sub> NC(O)OCH <sub>2</sub> CH <sub>2</sub>	i-Pr	4-F-Phenyl	94 - 96
882	3-(1-Hexynyl)	i-Pr	Phenyl	oil*
883	i-Pr	(CD₃)₂CH	4-F-Phenyl	66 - 68
884	1-(3-Allyloxy-2- methoximinopropyl)	i-Pr	4-F-Phenyl	oil*
885	1-(3-Allyloxy-2- methoximinopropyl)	i-Pr	Phenyl	oil*

886	1-(3-Allyloxy-2-	<i>i-</i> Pr	2,4-diF-Phenyl	il*
	methoximinopropyl)	1		1
887	1-(3-Allyloxy-2-	i-Pr	4-Cl-Phenyl	oil*
	methoximinopropyl)			
888	i-Pr	2-(1-Chloropropyl)	4-Cl-Phenyl	oil*
889	(1,3-Dioxolan-4-yl)methyl	<i>i</i> -Pr	4-F-Phenyl	75 - 78
890	(2,2-Dimethyl-1,3-dioxolan-4-	i-Pr	4-F-Phenyl	110 - 113
	yl)methyl			
891	(1,3-Dioxolan-4-yl)methyl	i-Pr	Phenyl	91 - 96
892	2-Methoxymethylpyrrolidin-1-	i-Pr	4-F-Phenyl	oil*
	ylyl			<u> </u>
893	1-(3-Methylbutyl)	i-Pr	Phenyl	63 - 65
894	1-(3-Methylbutyl)	<i>i-</i> Pr	4-Cl-Phenyl	64 - 66
895	1-(3-Methylbutyl)	i-Pr	4-F-Phenyl	88 - 91
896	1-(3-Methylbutyl)	i-Pr	2,4-diF-Phenyl	54 - 56
897	3-(1-Hexynyl)	i-Pr	2,4-diF-Phenyl	63 - 64
898	1-(1,3-Dioxepin-2-yl)ethyl	i-Pr	4-F-Phenyl	oil*
899	(1,3-Dioxolan-2-yl)methyl	i-Pr	4-F-Phenyl	84 - 87
900	1-(3-Benzyloxy-2-	i-Pr	4-F-Phenyl	oil*
	methoximinopropyl)			
901	1-(3-Benzyloxy-2-	i-Pr	Phenyl	oil*
	methoximinopropyl)			
902	1-(3-Methoxy-2-	i-Pr	4-F-Phenyl	oil*
	methoximinopropyl)			
903	1-(3-Methoxy-2-	i-Pr	Phenyl	oil*
	methoximinopropyl)			
904	1-(3-Methoxy-2-	<i>i</i> -Pr	Phenyl.	oil*
	methoximinopropyl)			
905	i-Pr	2-(1,1-	4-Cl-Phenyl	oil*
		Dimethoxypropyl)		
906	i-Pr	2-(1-Chloropropyl)	Phenyl	92 - 94
907	i-Pr	2-(1-Chloropropyl)	4-F-Phenyl	95 - 97
908	i-Pr	2-(3-Chlorobutyl)	Phenyl	oil*
909	i-Pr	2-(3-Chlorobutyl)	4-F-Phenyl	oil*
910	í-Pr	n-Bu	4-F-Phenyl	72 - 73

911	i-Pr	n-Pr	4-F-Phenyl	63 - 64
912	i-Pr	<i>i-</i> Bu	4-F-Phenyl	66 - 67
913	CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>2</sub>	i-Pr	Phenyl	oil*
914	HC(O)CH <sub>2</sub> CH <sub>2</sub>	i-Pr	4-F-Phenyl	oil*
915	CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	i-Pr	2,4-diF-Phenyl	oil*
916	CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	i-Pr	4-Cl-Phenyl	oil*
917	3-(1-Hexynyl)	<i>i</i> -Pr	4-Cl-Phenyl	oil*
918	i-Pr	2-(1,1,1-	Phenyl	92 - 94
		Trifluoropropyl)		
919	i-Pr	2-(1,1-	Phenyl	oíl*
	<u> </u>	Dimethoxypropyl)		
920	i-Pr	2-(1,1-	4-F-Phenyl	oil*
		Dimethoxypropyl)		
921	i-Pr	1-(1-Cyanoethyl)	4-F-Phenyl	80 - 82
922	1-(3-Methoxy-2-	i-Pr	4-Cl-Phenyl	oil*
	methoximinopropyl)			
923	1-(3-Methoxy-2-	i-Pr	2,4-diF-Phenyl	oil*
	methoximinopropyl)			
924	i-Pr	Allyl	4-F-Phenyl	57 - 59
925	i-Pr	c-Hexyl	4-F-Phenyl	126 - 131
926	i-Pr	c-Pentyl	4-F-Phenyl	93 - 95
927	3-(Cyclopentene)	i-Pr	2,4-diF-Phenyl	oil*
928	3-(Cyclopentene)	i-Pr	4-Cl-Phenyl	100 - 103
929	3-(Cyclopentene)	i-Pr	Phenyl	oil*
930	1-(3-Oxocyclobutyl)	<i>i</i> -Pr	4-F-Phenyl	oil*
931	1-(3-Oxocyclobutyl)	i-Pr	2,4-diF-Phenyl	95 - 97
932	1-(3-Oxocyclobutyl)	i-Pr	Phenyl	148 - 150
933	1-(3-Oxocyclobutyl)	i-Pr	4-Cl-Phenyl	120 - 122
934	CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>2</sub>	i-Pr	4-F-Phenyl	94 - 95
935	CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>2</sub>	i-Pr	2,4-diF-Phenyl	oil*
936	CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>2</sub>	i-Pr	4-Cl-Phenyl	111 - 113
937	1-(3-Butenyl)	i-Pr	4-F-Phenyl	40 - 42
938	l-(3-Butenyl)	i-Pr	2,4-diF-Phenyl	58 - 60
939	1-(3-Butenyl)	i-Pr	Phenyl	43 - 45
940	1-(3-Butenyl)	i-Pr	4-Cl-Phenyl	50 - 51

941	i-Pr	Neopentyl	4-F-Phenyl	88 - 89
942	i-Pr	(CH <sub>3</sub> ) <sub>3</sub> CCH <sub>2</sub> CH <sub>2</sub>	4-F-Phenyl	79 - 80
943	2-(1-Chloro-3-Fluoropropyl)	i-Pr	4-Cl-Phenyl	87 - 90
944	2-(1,3-Dichloropropyl)	i-Pr	4-Cl-Phenyl	79 - 82
945	4-(2,3,5,6-	i-Pr	4-F-Phenyl	163 –165
	Tetrahydrothiopyranyl)			
946	4-(2,3,5,6-	<i>i</i> -Pr	Phenyl	145 -148
	Tetrahydrothiopyranyl)			
947	4-(2,3,5,6-	i-Pr	2,4-diF-Phenyl	oil*
	Tetrahydrothiopyranyl)			
948	4-(2,3,5,6-	i-Pr	4-Cl-Phenyl	153 - 157
	Tetrahydrothiopyranyl)			
949	3-(2,3,4,5-Tetrahydrothienyl)	i-Pr	4-F-Phenyl	67 - 70
950	2-(1-Chloro-3-Fluoropropyl)	i-Pr	Phenyl	100- 103
951	i-Pr	3-(2,3,4,5-	4-F-Phenyl	114 -117
		Tetrahydrothienyl)		
952	i-Pr	N=CHMe	Phenyl	oil*
953	i-Pr	N=CMe <sub>2</sub>	Phenyl	oil*
954	PyrrolidinoC(O)OCH <sub>2</sub> CH <sub>2</sub>	i-Pr	Phenyl	100 - 104
955	i-Pr	2-(1,3-DiCl-propyl)	Phenyl	oil*
956	<i>i</i> -Pr	2-(1,3-DiCl-propyl)	4-F-Phenyl	oil*
957	<i>i-</i> Pr	3-(2-Me-butyl)	4-F-Phenyl	109 - 110
958	c-Pr	(CD₃)₂CH	4-F-Phenyl	69 – 70
959	3-(2-Methyl-4-pentynyl)	i-Pr	Phenyl	oil*
960	EtOC(O)OCH <sub>2</sub> CH <sub>2</sub>	i-Pr	4-F-Phenyl	105-108
961	i-Pr	3-Pentyl	4-F-Phenyl	55 - 57
962	CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	i-Pr	4-F-Phenyl	oil*
963	CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	i-Pr	Phenyi	oil*
964	HC(O)CH <sub>2</sub> CH <sub>2</sub>	i-Pr	2,4-diF-Phenyl	oil*
965	HC(O)CH <sub>2</sub> CH <sub>2</sub>	i-Pr	Phenyl	oil*
966	HC(O)CH <sub>2</sub> CH <sub>2</sub>	<i>i-</i> Pr	4-Cl-Phenyl	98 - 100
967	4-(1-Hexynyl)	i-Pr	4-F-Phenyl	oil*
307	. (			

<sup>\*</sup>see Index Table D for <sup>1</sup>H NMR data.

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## INDEX TABLE D

Cmnd No	IH NMR Data (CDCl <sub>3</sub> solution unless indicated otherwise) <sup>a</sup>
<del></del>	
77	δ 7.30 (d, 1H), 7.20 (d, 1H), 6.99 (m, 1H), 4.89 (s, 2H), 3.50 (q, 4H), 1.24 (t, 6H).
80	δ 7.22 (m, 4H), 7.09 (m, 2H), 6.96 (m, 1H), 4.78 (s, 2H), 4.42 (m, 1H), 1.20 (d, 6H).
82	δ 7.32 (d, 1H), 7.20 (d, 1H), 7.00 (m, 1H), 4.90 (s, 2H), 3.95 (m, 1H), 3.40 (m, 2H), 1.82 (m, 4H),
	1.70-1.50 (m, 2H), 1.40-1.20 (m, 7H).
83	δ 7.3 (d, 1H), 7.19 (d, 1H), 6.96 (m, 1H), 4.88 (s, 2H), 4.38 (m, 1H), 4.20 (s, 2H), 3.80 (t, 2H) 2.30 (br.s, 2H), 1.28 (d, 6H).
84	δ 7.41 (d, 1H), 7.10 (m, 4H), 4.75 (s, 2H), 3.50 (q, 4H), 3.45 (s, 3H), 1.24 (t, 6H).
85	δ 7.41-7.14 (m, 9H), 4.66 (s, 2H), 3.44 (s, 3H), 2.37 (s, 3H).
87	δ 7.38 (m, 1H), 7.10 (m, 4H), 6.92 (m, 2H), 4.64 (m, 3H), 2.36 (s, 3H), 1.10 (m, 6H).
90	δ 7.10 (m, 8H), 5.20 (m, 1H), 4.60 (m, 1H), 2.80 (m, 3H), 2.20 (m, 2H) 1.20 (d, 6H).
91	δ 7.22 (m, 2H), 7.08 (m, 2H), 4.62 (m, 1H), 3.42 (t, 2H), 1.62 (m, 2H), 1.20 (d, 6H), 0.90 (t, 3H).
92	δ 7.40 (m, 2H), 7.12 (m, 2H), 4.64 (m, 1H), 3.42 (t, 2H), 1.62 (m, 2H), 1.20 (d, 6H), 0.90 (t, 3H).
99	δ 7.3 (m, 2H), 7.1 (m, 2H), 4.7 (m, 1H), 4, 1 (m, 1H), 2.4-2.7 (m, 2H), 2.2 (m, 1H), 2.0 (m, 1H),
	1.3-1.8 (m 5H), 1.2 (d, 6H).
101	δ 6.87 (t, 2H), 6.52 (dd, 2H), 3.57 (m, 1H), 2.91 (q, 2H), 2.70 (s, 3H), 1.32 (t, 3H), 1.19 (d, 6H).
105	δ 7.40 (d, 2H), 7.20 (d, 2H), 5.80 (m, 1H), 5.30 (m, 2H), 4.04 (d, 2H), 1.20 (d, 6H).
106	δ 7.40-7.08 (m, 9H), 4.40 (m, 3H), 1.20 (d, 6H).
115	δ 7.40 (d, 2H), 7.10 (d, 2H), 4.62 (m, 1H), 3.42 (t, 2H), 1.64 (q, 2H), 1.20 (d, 6H), 0.92 (t, 3H).
126	δ 5.87 (br m, 1H), 4.41 (m, 1H), 4.27 (m, 2H), 3.86 (t, 2H), 2.41 (s, 3H), 2.35 (br m, 2H), 2.25 (s, 3H), 1.32 (d, 6H).
127	δ 7.3 (m, 1H), 6.8-7.0 (m, 2H), 5.7-5.9 (m, 1H), 5.2-5.4 (t, 2H), 4.1 (d, 2H), 3.3 (m, 1H), 1.3 (m, 2H), 0.7 (d, 2H).
128	δ 7.2-7.4 (m, 4H), 7.1 (t, 2H), 4.8 (m, 1H), 4.2 (g, 4H), 4.0 (s, 2H), 1.3 (t, 6H), 1.1 (d, 6H).
129	δ 7.40-7.20 (m, 5H), 4.62 (m, 1H), 3.42 (t, 2H), 1.58 (s, 9H), 1.20 (d, 6H).
130	δ 7.38 (m, 1H), 6.94 (m, 2H), 4.64 (m, 1H), 3.43 (t, 2H), 1.62 (m, 2H), 1.20 (m, 6H), 0.90 (t, 3H).
133	δ 7.40-7.18 (m, 9H), 5.18 (q, 1H), 4.40 (m, 1H), 1.80 (d, 3H), 1.18 (d, 6H).
134	δ 7.40-7.10 (m, 9H), 5.18 (q, 1H), 4.42 (m, 1H), 1.80 (d, 3H), 1.18 (d, 6H).
135	δ 7.27 (m, 2H), 7.11 (t, 2H), 4.69 (m, 1H), 2.92 (m, 1H), 2.76 (m, 1H), 1.32-1.14 (m, 18H).
144	δ 7.40-7.27 (m, 8H), 5.80 (s, 1H), 4.86 (s, 2H), 4.40 (m, 1H), 4.22 (s, 2H), 3.80 (t, 2H), 2.30 (s, 2H),
	1.28 (d, 6H).
145	δ 7.40-7.27 (m, 4H), 5.80 (br.s, 1H), 4.86 (s, 2H), 4.30 (m, 1H), 2.38 (m, 1H), 2.16 (m, 4H), 1.90
	(m, 1H), 1.70 (m, 2H), 1.26 (d, 6H).
- 147	δ·5.8 (m, 2H), 5·38 (m, 2H), 4.4 (m, 1H), 4.22 (s, 2H), 4.08 (m, 2H), 3.83 (t, 2H), 2.30 (br.s, 2H),
	1.26 (d, 6H).

148	δ 7.22 (m, 2H), 7.10 (m, 2H), 4.40 (m, 1H), 3.80-3.50 (m, 4H), 1.21 (d, 6H).
149	δ 5.72 (s, 1H), 4.40 (m, 1H), 4.28 (s, 2H), 4.16 (m, 2H), 7.10 (m, 2H), 4.40 (m, 1H), 3.80-3.50 (m,
	4H), 1.21 (d, 6H).
150	δ 5.82 (s, 1H), 5.38 (m, 2H), 4.18 (d, 2H), 3.72 (br.s, 2H), 3.54 (br.s, 2H), 1.96 (br.s, 4H).
151	δ 7.30 (m, 1H), 6.92 (m, 2H), 5.80 (m, 1H), 5.26 (m, 2H), 4.42 (m, 1H), 4.06 (d, 2H), 1.2 (m, 6H).
152	δ 7.40 (m, 5H), 4.71 (s, 2H), 3.50 (q, 4H), 1.24 (t, 6H).
153	δ 7.31 (m, 10H), 4.61 (s, 2H), 3.43 (s, 3H).
172	δ 7.40 (m, 1H), 6.94 (m, 2H), 4.62 (m, 1H), 4.02 (m, 1H), 3.40 (m, 1H), 1.20 (m, 6H), 0.78 (d, 3H).
174	δ 7.20-7.40 (m, 4H), 5.02 (m, 1H), 4.62 (m, 1H), 1.80 (d, 3H), 1.18 (d, 6H).
178	δ 7.40-7.20 (m, 4H), 4.62 (m, 1H), 3.40 (m, 1H), 1.20 (d, 6H), 0.78 (d, 3H).
180	δ 7.3 (m, 1H), 7.2-7.1 (d, 2H), 5.1-5.0 (m, 1H), 3.99 (s, 6H), 2.22 (s, 6H), 1.46 (d, 6H).
181	δ 7.5-7.1 (m, 4H), 5.1-5.0 (m, 1H), 4.00 (s, 6H), 2.26 (s, 3H), 1.5 (d, 6H).
182	δ 5.0 (m, 1H), 4.3 (m, 1H), 3.97 (s, 6H), 1.5-1.4 (m, 12H).
183	δ 7.3 (m, 2H), 7.0 (m, 1H), 6.8 (m, 2H), 3.9 (m, 1H), 3.4 (m, 5H), 1.9-1.1 (m, 13H).
184	δ 7.2 (m, 2H), 7.1 (m, 2H), 4.6 (m, 1H), 4.1-3.8 (m, 1H), 2.2-1.7 (m, 9H), 1.2 (d, 6H).
188	δ 7.25 (m, 2H), 7.10 (m, 2H), 4.65 (m, 1H), 3.65 (m, 2H), 3.20 (m, 1H), 2.80 (t, 1H), 2.62 (m, 1H),
	1.21 (d, 6H).
189	δ 8.6 (m, 2H), 7.2 (m, 2H), 4.69 (s, 2H), 4.3 (m, 1H), 3.5 (bm, 2H), 1.50 (d, 6H), 1.22 (t, 3H).
190	δ 8.97 (s, 1H), 4.6 (q, 2H), 4.4 (m, 1H), 1.5 (m, 9H).
191	δ 7.37 (d, 2H), 7.19 (d, 2H), 4.70 (s, 2H), 4.55-4.67 (m, 1H), 2.61 (s, 3H), 2.42 (s, 3H), 1.20 (d, 6H).
192	δ 7.20-7.25 (m, 2H), 7.04-7.10 (m, 2H), 4.70 (s, 2H), 4.58-4.67 (m, 1H), 2.61 (s, 3H), 2.42 (s, 3H),
	1.19 (d, 6H).
196	δ 7.38-7.41 (m, 2H), 7.20-7.23 (m, 2H), 4.62-4.71 (m, 1H), 2.66 (s, 3H), 2.21 (s, 3H), 1.23 (d, 6H).
197	87.41-7.43 (m, 3H), 7.25-7.28 (m, 2H), 4.61-4.74 (m, 1H), 2.65 (s, 3H), 2.19 (s, 3H), 1.24 (d, 6H).
198	δ 7.24-7.28 (m, 2H), 7.11 (t, 2H), 4.61-4.74 (m, 1H), 2.66 (s, 3H), 2.21 (s, 3H), 1.23 (d, 6H).
201	δ 7.4 (m, 3H), 7.2-7.25 (m, 3H), 7.1-7.2 (t, 2H), 4.6-4.8 (m, 1H), 2.3-2.4 (q, 2H), 2.07 (s, 3H), 1.2
	(d, 6H), 1.0 (t, 3H).
206	δ 7.40-7.20 (m, 5H), 6.40 (m, 1H), 6.36 (m, 1H), 4.60 (m, 3H), 1.20 (d, 6H).
207	δ 7.40 (s, 1H) 7.20 (m, 2H), 7.18 (m, 2H), 4.60 (m, 3H), 1.20 (d, 6H).
208	δ 7.40 (m, 2H), 6.94 (t, 2H), 6.38 (m, 1H), 6.36 (m, 1H), 4.62 (m, 3H), 1.20 (d, 6H).
210	δ 7.29 (m, 7H), 7.17 (m, 2H), 6.65 (d, 1H), 6.1 (m, 1H), 4.65 (m, 1H), 4.22 (d, 2H), 1.2 (d, 6H).
213	δ 7.23 (m, 2H), 7.09 (m, 2H), 4.65 (m, 1H), 4.24 (s, 2H), 1.2 (d, 6H), 0.14 (s, 9H).
214	δ 7.24 (m, 2H), 7.1 (m, 2H), 6.75 (m, 1H), 5.92 (m, 1H), 4.65 (m, 1H), 4.2 (m, 4H), 1.28 (t, 3H), 1.2
	(d, 6H).
215	δ 7.23 (m, 2H), 7.09 (m, 2H), 4.65 (m, 1H), 4.21 (s, 2H), 3.77 (s, 3H), 1.2 (d, 6H).

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216	δ 7.27 (m, 2H), 7.08 (m, 2H), 4.65 (m, 1H), 4.38 (s, 2H), 1.21 (m, 15H).
217	δ 7.2 (m, 2H), 7.1 (m, 2H), 4.65 (m, 1H), 4.25 (s, 2H), 2.22 (s, 3H), 1.2 (d, 6H).
218	δ 7.23 (m, 2H), 7.11 (m, 2H), 4.65 (m, 1H), 3.7 (t, 2H), 2.65 (m, 2H), 1.2 (d, 6H).
220	δ 7.23 (m, 2H), 7.09 (m, 2H), 4.65 (m, 1H), 3.68 (m, 4H), 3.55 (m, 2H), 3.44 (m, 2H), 3.31 (s, 3H),
	1.2 (d, 6H).
221	δ 7.22 (m, 2H), 7.09 (m, 2H), 4.65 (m, 1H), 3.47 (t, 2H), 1.6 (m, 2H), 1.3 (m, 2H), 1.2 (d, 6H), 0.9
<u> </u>	(t, 3H).
222	δ 7.40 (m, 1H), 6.90 (m, 2H), 4.70 (m, 1H), 3.71 (s, 3H), 2.31 (s, 3H), 2.10 (s, 3H), 1.20 (m, 6H).
223	δ 7.26 (m, 2H), 7.15 (m, 4H), 6.70 (m, 1H), 2.33 (s, 3H), 2.15 (s, 3H), 1.20 (m, 6H).
225	δ 7.40 (m, 3H), 7.30 (m, 2H), 4.65 (m, 1H), 2.80 (s, 6H), 1.20 (s, 6H).
229	δ 7.20 (m, 8H), 4.66 (m, 1H), 2.64 (t, 2H), 2.13 (s, 3H), 1.59 (m, 2H), 1.35 (m, 2H), 1.23 (m, 6H),
	0.94 (t, 3H).
230	δ 7.40-7.13 (m, 8H), 4.68 (m, 1H), 2.69 (q, 2H), 2.14 (s, 3H), 1.26 (m, 9H).
232	δ 7.37 (m, 3H), 7.20-7.30 (m, 2H), 4.68 (s, 2H), 4.61 (m, 1H), 2.61 (s, 3H), 2.41 (s, 3H), 1.20 (d,
	6H).
233	δ 7.37 (dd, 1H), 6.92 (dd, 1H), 4.69 (s, 2H), 4.61 (m, 1H), 2.61 (s, 3H), 2.41 (s, 3H), 1.21 (d, 6H).
236	δ 7.28 (m, 8H), 4.53 (m, 1H), 2.33 (s, 3H), 2.20 (s, 1.5H), 2.07 (s, 1.5H), 1.44 (d, 3H), 1.16 (d, 3H).
238	δ 7.40 (m, 3H), 5.05 (m, 1H), 4.60 (m, 1H), 1.80 (d, 3H), 1.20 (m, 6H).
241	δ 7.37 (d, 2H), 7.19 (d, 2H), 4.61 (m, 1H), 2.65 (m, 1H), 1.119 (d, 6H), 0.97 (m, 4H).
248	δ 7.40 (m, 2H), 7.05 (m, 2H), 4.80 (q, 1H), 4.25 (q, 2H), 3.55 (q, 2H), 1.43 (d, 3H), 1.30 (m, 12H).
251	δ 7.23 (m, 2H), 7.11 (m, 2H), 4.65 (m, 1H), 3.34 (d, 2H), 1.22 (m, 7H), 0.55 (m, 2H), 0.35 (m, 2H).
252	δ 7.22 (m, 2H), 7.08 (m, 2H), 4.65 (m, 1H), 4.25 (s, 2H), 2.48 (q, 2H), 1.19 (d, 6H), 1.1 (t, 3H).
253	δ 7.22 (m, 2H), 7.08 (m, 2H), 4.65 (m, 1H), 3.4 (m, 4H), 1.9-1.19 (m, 34H), 0.88 (m, 7H).
254	δ 7.23 (m, 2H), 7.09 (m, 2H), 4.65 (m, 1H), 4.22 (m, 2H), 2.13 (m.2H), 1.45 (m, 2H), 1.29 (m, 4H), 1
	0.88 (m, 3H).
256	δ 7.2 (m, 2H), 7.04 (m, 2H), 4.61 (m, 3H), 3.88 (s, 2H), 1.43 (s, 2H), 0.04 (m, 9H).
257	δ 7.23 (m, 2H), 7.1 (m, 2H), 4.65 (m, 1H), 3.46 (m, 3H), 1.67-0.9 (m, 18H).
258	δ 7.23 (m, 2H), 7.08 (m, 2H), 4.98 (s, 2H), 4.65 (m, 1H), 3.71 (m, 2H), 3.45 (m, 2H), 3.28 (s, 3H),
	1.2 (d, 6H).
260	δ 7.75 (d, 2H), 7.6 (t, 1H), 7.45 (t, 2H), 7.2 (m, 2H), 7.05 (m, 2H), 5.38 (q, 1H), 4.65 (m, 1H), 1.73
· · · · · · · · · · · · · · · · · · ·	(d, 3H), 1.19 (d, 6H).
262	δ 7.23 (m, 2H), 7.08 (m, 2H), 5.17 (m, 1H), 5.02 (m, 1H), 4.65 (m, 1H), 4.06 (d, 2H), 2.02 (m, 4H), 1
	1.65 (s, 3H), 1.57 (s, 3H), 1.19 (d, 6H).
263	8 7.22 (m, 2H), 7.1 (m, 2H), 6.75 (m, 1H), 6.92 (m, 1H), 4.65 (m, 1H), 4.22 (m, 2H), 3.74 (s, 3H),
264	1.2 (d, 6H).
204	0 /.22 (m, 211), 1.00 (m, 211), 7.03 (m, 111), 7.07 (8, 211), 3.30 (m, 711), 1.27 1.17 (m, 1211).

265	δ 7.23 (m, 2H), 7.08 (m, 2H), 4.65 (m, 1H), 4.09 (s, 2H), 1.43 (s, 9H), 1.19 (d, 6H).
266	δ.7.21 (m, 2H), 7.08 (m, 2H), 4.65 (m, 1H), 3.66 (s, 3H), 3.55 (t, 2H), 2.33 (t, 2H), 1.96 (m, 2H), 1.2
267	δ 8.53 (m, 1H), 7.76 (m, 1H), 7.25 (m, 6H), 7.08 (t, 2H), 4.76 (s, 2H), 4.66 (m, 1H), 1.19 (d, 6H).
274	δ 3.90 (m, 1H), 3.40 (q, 2H), 2.97 (s, 6H), 1.50 (bm, 15H).
275	δ 3.90 (m, 1H), 3.45 (m, 4H), 1.70 (bm, 10H), 1.00 (s, 9H),
277	δ 7.30 (m, 1H), 6.90 (m, 2H), 4.70 (m, 1H), 3.20 (s, 2H), 1.20 (m, 6H), 0.90 (s, 9H).
279	δ 7.4 (m, 2H), 7.05 (m, 2H), 5.80 (m, 1H), 5.30 (m, 1H), 5.25 (m, 1H), 4.80 (q, 1H), 4.25 (m, 2H),
	4.6 (m, 2H), 1.42 (d, 3H), 1.30 (m, 6H).
280	δ 7.4 (m, 2H), 7.05 (m, 2H), 4.80 (q, 1H), 4.25 (q, 2H), 3.75 (m, 1H), 1.00-2.00 (m, 19H).
283	δ 7.40-7.20 (m, 5H), 4.6 (m, 1H), 4.10 (m, 1H), 1.80 (m, 8H), 1.20 (d, 6H).
284	δ 7.40 (m, 1H), 6.80 (m, 2H), 4.6 (m, 1H), 4.10 (m, 1H), 1.80 (m, 8H), 1.20 (d, 6H).
285	δ 7.23 (m, 2H), 7.08 (m, 2H), 5.5 (t, 1H), 4.65 (m, 1H), 4.2 (d, 2H), 2.12 (s, 3H), 1.2 (d, 6H).
286	δ 7.23 (m, 2H), 7.11 (m, 2H), 5.8 (m, 1H), 5.4 (m, 1H), 4.65 (m, 1H), 4.0 (d, 2H), 2.05 (m, 2H), 1.2
	(d, 6H), 0.96 (t, 3H).
287	δ 7.21 (m, 2H), 7.09 (m, 2H), 4.65 (m, 1H), 4.54 (t, 1H), 4.38 (t, 1H), 3.65 (t, 2H), 2.05 (m, 2H), 1.2
	(d, 6H).
288	δ 7.21 (m, 2H), 7.08 (m, 2H), 5.2 (m, 1H), 4.65 (m, 1H), 4.05 (d, 2H), 1.73 (d, 6H), 1.2 (d, 6H).
289	δ 7.23 (m, 2H), 7.09 (m, 2H), 4.65 (m, 1H), 4.52 (t, 1H), 4.36 (t, 1H), 3.53 (t, 2H), 1.8-1.6 (m, 4H),
	1.2 (d, 6H).
290	8 7.23 (m, 2H), 7.08 (m, 2H), 4.65 (m, 1H), 3.46 (t, 2H), 1.6 (m, 2H), 1.3 (m, 4H), 1.19 (d, 6H),
291	0.87 (t, 3H). δ 7.22 (m, 2H), 7.09 (m, 2H), 5.72 (m, 1H), 4.99 (m, 2H), 4.65 (m, 1H), 3.48 (t, 2H), 2.05 (q, 2H), 1.7
	1.2 (d, 6H).
292	δ 7.38-7.35 (m, 2H), 7.21-7.18 (m, 2H), 4.65 (m, 1H), 2.93 (s, 2H), 1.2 (d, 6H), 0.08 (s, 9H).
293	δ 7.22 (m, 2H), 7.09 (m, 2H), 4.89 (s, 2H), 4.65 (m, 1H), 3.39 (s, 3H), 1.2 (d, 6H).
294	δ 7.23 (m, 2H), 7.08 (m, 2H), 4.65 (m, 1H), 2.93 (s, 2H), 1.2 (d, 6H), 0.08 (s, 9H).
295	δ 7.23 (m, 2H), 7.09 (m, 2H), 4.92 (s, 2H), 4.65 (m, 1H), 3.58 (q, 2H), 1.2 (m, 9H).
296	δ 8.59 (s, 1H), 8.51 (s, 2H), 4.7 (m, 1H), 4.2-4.1 (m, 1H), 1.4-1.3 (m, 12H).
297	δ 3.49 (m, 1H), 2.77 (m, 1H), 1.25 (, 6H), 1.05 (m, 4H).
298	δ 3.9 (m, 1H), 3.41 (q, 2H), 2.79 (m, 1H), 2-1 (m, 17H).
302	δ 7.4 (m, 2H), 7.1 (m, 2H), 4.8 (m, 1H), 4.3 (m, 3H), 1.5-1.2 (m, 12H).
303	δ 7.4 (m, 4H), 7.2-7.3 (m, 1H), 7.1-7.2 (m, 2H), 4.7-4.8 (m, 1H), 2.306 (s, 3H), 1.3-1.4 (m, 9H), 1.2
203	(m, 3H), 1.1 (m, 3H).
304	δ 7.40 (t, 1H), 7.26 (m, 1H), 7.15 (d, 2H), 7.10 (m, 2H), 4.70 (m, 1H), 2.38 (q, 4H), 1.20 (d, 6H),
· -	1.10 (t, 6H).
308	δ 3.95 (m, 1H), 3.40 (m, 1H), 2.10 (m, 1H), 1.80 ( (m, 3H), 1.70-1.20 (m, 6H).

309	δ 4.28 (m, 1H), 3.80 (m, 1H), 3.40 (m, 2H), 1.8 (m, 2H)1.25 (d, 6H), 1.20 (t, 3H).
312	δ 7.40 (m, 1H), 6.42 (s, 1H), 6.40 (s, 1H), 4.74 (s, 2H), 3.84 (M, 1H), 3.40 (m, 2H), 1.80 (4H), 1.20
	(t, 3H).
317	δ 7.20 (m, 2H), 7.10 (m, 2H), 4.70 (m, 1H), 3.50 (d, 2H), 3.30 (s, 6H), 1.20 (d, 6H).
323	δ 7.22 (m, 2H), 7.07 (m, 2H), 4.6 (m, 1H), 3.55 (t, 2H), 2.26 (t, 2H), 2.11 (s, 6H), 1.8 (t, 2H), 1.2 (d,
	6H)
325	δ 7. 4 (m, 2H), 7.3 (m, 2H), 5.9-5.7 (m, 1H), 5.3-5.2 (m, 2H), 4.1 (d, 2H), 3.7 (q, 1H), 1.3 (d, 3H),
	0.7-0.4 (m, 4H), 0.3 (m, 1H).
331	δ 7.4 (m, 2H), 7.30 (t, 1H), 7.05 (t, 2H), 6.95 (d, 1H), 6.90 (d, 1H), 4.80 (q, 1H), 4.25 (q, 2H), 3.75
	(s, 3H), 2.12 (s, 3H), 1.45 (s, 3H), 1.30 (t, 6H).
335	δ 8.18 (d, 1H), 8.08 (d, 1H), 7.82 (d, 1H), 7.62-7.44 (m, 6H), 7.20 (m, 1H), 4.60 (m, 1H), 1.20 (br. s,
ļ	6H) (In DMSO).
336	δ 8.18-8.00 (m, 2H), 7.60-7.43 (m. 8H), 4.62 (m, 1H), 2.24 (s, 3H), 1.20 (m, 6H) (in DMSO).
337	δ 8.14-8.00 (m, 2H), 7.60-7.20 (m, 7H), 4.62 (m, 1H), 2.20 (s, 3H), 1.20 (s, 6H) (in DMSO).
338	δ 8.12-8.00 (m, 2H), 7.60-7.22 (m, 8H), 4.60 (m, 1H), 2.24 (s, 3H), 1.19 (d, 6H) (in DMSO).
344	δ 8.10-8.00 (m, 2H), 7.60-7.22 (m, 9H), 4.62 (m, 1H), 2.22 (s, 3H), 1.20 (m, 6H) (in DMSO).
345	δ 7.40-7.20 (m, 4H), 5.60 (m, 1H), 5.02 (m, 1H), 4.60 (m, 1H), 4.00 (m, 1H), 3.60 (m, 1H), 3.40 (m,
	1H), 1.20 (d, 6H).
352	δ 7.30 (m, 1H), 6.90 (m, 2H), 4.65 (m, 1H), 4.20 (m, 1H), 3.75 (t, 1H), 3.40 (q, 1H), 3.20 (s, 3H),
	1.30 (d, 3H), 1.20 (m, 6H).
354	δ
355	δ 7.30 (m, 1H), 6.90 (m, 2H), 4.70 (m, 1H), 3.60 (m, 1H), 2.20 (m, 1H), 1.35 (s, 3H), 1.20 (m, 6H),
	0.90 (d, 3H), 0.80 (d, 3H).
356	δ 7.40 (m, 3H), 7.28 (m, 2H), 4.70 (m, 1H), 3.60 (m, 1H), 2.20 (m, 1H), 1.35 (s, 3H), 1.20 (d, 6H),
<del></del>	0.90 (d, 3H), 0.80 (d, 3H).
358	δ 7.20 (m, 2H), 7.10 (m, 2H), 4.70 (m, 1H), 1.90 (m, 2H), 1.70 (m, 2H), 1.20 (d, 6H), 0.80 (t, 6H).
359	δ 7.2-7.4 (m, 2H), 7.15 (m, 2H), 7.0-7.1 (t, 3H), 4.7-4.8 (m, 1H), 2.308 (s, 3H), 1.3-1.4 (m, 12H),
	1.16 (s, 3H).
361	δ 7.37 (d, 2H), 7.18 (d, 2H), 4.64 (m, 1H), 1,39 (s, 3H), 1.19 (d, 6H), 1.02 (m, 2H), 0.86 (m, 2H).
362	δ 7.24 (d, 2H), 7.18 (d, 2H), 4.64 (m, 1H), 1,39 (s, 3H), 1.19 (d, 6H), 1.02 (m, 2H), 0.86 (m, 2H).
363	δ 7.37 (d, 1H), 6.92 (m, 2H), 4.64 (m, 1H), 1,39 (s, 3H), 1.19 (d, 6H), 1.02 (m, 2H), 0.86 (m, 2H).
364	δ 7.40 (m, 3H), 7.28 (m, 2H), 4.70 (m, 1H), 3.60 (m, 1H), 1.90 (m, 2H), 1.70 (m, 2H), 1.20 (d, 6H),
	0.80 (d, 6H).
365	δ 7.4 (m, 2H), 7.2 (m, 2H), 4.8 (m, 1H), 4.2 (m, 2H), 3.0 (s, 3H), 1.4 (d, 3H), 1.3 (t, 3H).
366	δ 8.61 (m, 2H), 7.70 (br d, 1H), 7.27 (m, 3H), 7.07 (t, 1H), 4.73 (m, 1H), 4.62 (s, 2H), 1.19 (d, 6H).
367-	δ 7.23 (m, 2H), 7.11 (m, 2H), 4.67 (m, 1H), 4.2 (m, 1H), 3.93 (m, 1H), 3.6 (m, 1H), 1.48 (d, 3H),
	1.18 (d, 6H).

369	δ 7.37 (q, 1H), 7.19 (d, 2H), 4.64 (m, 1H), 2.31 (b, 1H), 1.4-0.77 (m, 12H).
370	δ 7.39 (m, 3H), 7.24 (m, 2H), 4.64 (m, 1H), 2.28 (m, 1H), 1.3-1 (m, 11H), 0.78 (m, 1H).
372	δ 7.37 (q, 1H), 6.92 (m, 2H), 4.64 (m, 1H), 2.31 (m, 1H), 1.4-1.0 (m, 11H), 0.78 (m, 1H).
379	δ 7.38 (m, 3H), 7.22 (m, 2H), 4.83 (s, 2H), 4.62 (m, 1H), 4.46 (q, 2H), 1.41 (t, 3H), 1.21 (d, 6H).
381	δ 7.22 (m, 3H), 7.06 (m, 3H), 4.85 (s, 2H), 4.63 (m, 1H), 4.48 (m, 2H), 1.42 (t, 3H), 1.19 (d, 6H.
387	δ 7.3 (m, 2H), 7.1 (m, 2H), 4.93 (m, 1H), 4.65 (m, 1H), 1.8 (d, 3H), 1.2 (d, 6H).
389	δ 7.23 (m, 2H), 7.08 (m, 2H), 4.65 (m, 1H), 3.46 (t, 2H), 1.6 (m, 2H), 1.26 (m, 6H), 1.2 (d, 6H), 0.86 (t, 3H).
394	δ 7.28 (m, 1H), 6.91 (m, 2H), 4.65 (m, 1H), 3.29 (d, 2H), 2.11 (m, 1H), 1.21 (b, 6H), 0.87 (D, h
399	δ 7.24 (m, 2H), 7.1 (m, 2H), 4.64 (m, 1H), 3.77 (m, 2H), 2.45 (m, 2H), 1.21 (d, 6H).
400	87.21 (m, 2H), 7.09 (m, 2H), 4.65 (m, 1H), 4.47 (q, 1H), 2.19 (s, 3H), 1.67 (d, 3H), 1.2 (d, 6H).
401	δ 7.05-7.24 (m, 4H), 5.37-5.44 (m, 1H), 4.58-4.67 (m, 1H), 2.33 (s, 3H), 1.78 (d, 3H), 1.19 (d, 6H).
408	δ 7.27 (m, 1H), 6.89 (m, 2H), 4.62 (m, 1H), 4.2 (m, 1H), 3.98 (m, 1H), 3.6 (m, 1H), 1.45 (d, 3H), 1.21 (d, 6H).
412	δ 7.20-7.10 (m, 4H), 5.80 (m, 1H), 5.40 (m, 1H), 4.60 (m, 1H), 4.05 (d, 1H), 4.00 (d, 1H), 1.70 (m, 2H), 1.20 (d, 6H).
413	δ 7.20 (m, 2H), 7.10 (m, 2H), 6.00 (m, 1H), 5.20 (m, 2H), 4.60 (m, 2H), 1.50 (d, 3H), 1.20 (d, 6H).
414	$\delta$ 7.36 (m, 2H), 7.19 (m, 2H), 6.02 (m, 2H), 5.69 (m, 1H), 4.64 (septet, J = 6.8 Hz, 1H), 2.97 (s, 2H), 1.20 (d, J = 6.8 Hz, 8H), 0.17 (s, 6H).
417	δ 7.38 (m, 2H), 7.17 (m, 2H), 4.65 (m, 1H), 3.29 (d, 2H), 2.01 (m, 1H), 1.21 (d, 6H), 0.88 (d, 6H).
418	δ 7.38 (m, 2H), 7.25 (m, 2H), 4.75 (s, 1H), 4.63 (m, 1H), 4.6 (m, 1H), 3.57 (t, 2H), 2.31 (t, 2H), 1.71 (s, 3H), 1.2 (d, 6H).
419	δ 7.38 (m, 2H), 7.25 (m, 2H), 4.62 (m, 1H), 3.68 (t, 2H), 2.73 (t, 2H), 2.06 (s, 3H), 1.2 (d, 6H).
420	δ 7.38 (m, 3H), 7.25 (m, 2H), 4.53 (d, 2H), 4.31 (d, 2H), 3.67 (s, 3H), 1.27 (s, 3H), 1.2 (d, 6H).
424	δ
425	δ 7.23 (m, 2H), 7.08 (m, 2H), 6.01 (m, 2H), 5.70 (dd, J = 16.5 Hz, J = 7.3 Hz, 1H), 4.65 (septet, J = 6.8 Hz, 1H), 2.97 (s, 2H), 1.19 (d, J = 6.8 Hz, 6H), 0.17 (s, 6H).
426	$\delta$ 7.23 (m, 2H), 7.05 (m, 2H), 5.69 (m, 1H), 5.29 (s, 2H), 4.85 (m, 2H), 4.65 (septet, J = 6.8 Hz, 1H), 2.95 (s, 2H), 1.58 (d, J = 8.1 Hz, 2H), 1.19 (d, J = 6.8 Hz, 6H).
427	δ 5.82 (s, 1H), 4.25 (m, 1H), 4.20 (s, 1H), 4.00 (t, 2H), 2.25 (s, 1H), 1.20 (m, 6H).
428	δ 5.78 (s, 1H), 4.25 (m, 1H), 4.00 (m, 1H), 2.25 (m, 1H), 2.20 (m, 4H), 1.20 (d, 6H).
429	δ 4.00 (m, 1H), 3.50 (m, 2H), 3.00 (m, 1H), 2.20 (m, 2H), 1.80 (m, 4H), 1.20 (t, 3H).
432	δ 7.35 (m, 2H), 7.0 (m, 1H), 4.9 (m, 1H), 4.6 (m, 1H), 1.8 (d, 3H), 1.2 (br, 6H).
435	δ 7.4-7.2 (m, 5H), 4.9 (m, 1H), 4.62 (m, 1H), 1.7 (d, 3H), 1.2 (d, 6H).
441	δ 7.3 (m, 3H), 7.2 (m, 3H), 5.0 (m, 1H), 4.6 (m, 1H), 3.2 (s, 3H), 1.6 (d, 3H), 1.1 (d, 6H).
	<u></u>

442	δ 7.37 (m, 3H), 7.20 (m, 2H), 5.40 (q, 1H), 4.61 (m, 1H), 2, 62 (s, 3H), 2.30 (s, 3H), 1.76 (d, 3H), 1.20 (d, 6H).
443	δ 7.30 (m, 1H), 6.90 (t, 2H), 5.40 (q, 1H), 4.60 (m, 1H), 2.62 (s, 3H), 2.32 (s, 3H), 1.77 (d, 3H), 1.20 (m, 6H).
446	δ 7.2 (m, 2H), 7.1 (m, 2H), 5.1 (m, 1H), 4.7 (m, 1H), 3.9 (m, 1H), 3.7 (m, 1H), 3.4 (s, 3H), 3.3 (s, 3H), 1.2 (s, 6H).
447	δ 7.4 (m, 3H), 7.3 (m, 2H), 4.6 (m, 1H), 4.1 (m, 4H), 3.8 (d, 2H), 1.2 (m, 12H).
448	δ 7.4 (m, 3H), 7.3 (m, 2H), 4.6 (m, 1H), 4.3 (m, 1H), 4.1 (m, 4H), 1.6 (m, 6H), 1.2 (m, 12H).
452	δ 7.2 (m, 2H), 7.1 (m, 2H), 6.1-5.2 (m, 3H), 4.7 (m, 1H), 3.6 (m, 1H), 3.4 (s, 3H), 3.4 (s, 3H), 1.2 (d, 6H).
453	δ 7.21 (m, 2H), 7.08 (m, 2H), 4.6 (m, 1H), 3.99 (t, 2H), 3.36 (t, 2H), 2.97 (s, 3H), 1.18 (d, 6H).
454	δ 7.39 (m, 3H), 7.26 (m, 2H), 5.8 (m, 1H), 5.38 (m, 1H), 4.68 (m, 1H), 3.99 (d, 2H), 2.0 (m, 2H), 1.2 (d, 6H), 0.95 (t, 3H).
455	δ 7.39 (m, 3H), 7.26 (m, 2H), 6.0 (m, 1H), 5.2 (dd, 2H), 4.65 (m, 1H), 4.2 (m, 1H), 1.9 (m, 2H), 1.21 (d, 6H), 0.83 (t, 3H).
456	δ 7.39 (m, 2H), 7.20 (m, 2H), 4.65 (m, 1H), 4.2 (m, 1H), 3.91 (m, 1H), 3.6 (dd, 1H), 1.46 (d, 3H), 1.21 (d, 6H).
457	δ 7.4 (m, 3H), 7.2 (m, 2H), 5.0 (s, 2H), 4.5-4.0 (br, 1H), 1.6 (m, 1H), 1.2 (d, 6H).
458	δ 7.3 (m, 2H), 7.1 (m, 2H), 5.1 (m, 1H), 4.7 (m, 1H), 4.1 (m, 1H), 3.8 (m, 1H), 3.4 (s, 3H), 1.2 (d, 6H).
461	δ 7.27 (m, 2H), 7.11 (m, 2H), 4.68 (m, 1H), 3.46 (t, 2H), 1.64 (m, 2H), 1.22 (d, 6H), 0.44 (m, 2H), 0.00 (s, 9H).
463	δ 7.3-7.4 (q, 1H), 6.8-7.0 (m, 2H), 4.6-4.7 (m, 2H), 3.73 (s, 3H), 1.6 (d, 3H), 1.2 (d, 6H).
464	δ 7.4 (m, 3H), 7.2 (m, 2H), 4.6-4.7 (m, 2H), 3.727 (s, 3H), 1.6 (d, 6H), 1.3 (d, 3H).
465	δ 7.3-7.4 (m, 1H), 6.8-7.0 (m, 2H), 4.6-4.7 (m, 1H), 4.1-4.3 (m, 3H), 3.5-3.9 (m, 1H), 3.0-3.3 (m, 1H), 2.2-2.5 (m, 1H), 1.2 (m, 12H).
467	δ 7.39 (m, 2H), 7.22 (m, 2H), 4.93 (s, 2H), 4.66 (septet, J = 6.8 Hz, 1H), 3.62 (apparent t, J = 8.3 Hz, 2H), 1.22 (d, J = 6.8 Hz, 6H), 0.93 (apparent t, J = 8.3 Hz, 2H), 0.00 (s, 9H).
472	δ 7.35 (m, 1H), 7.00 (m, 2H), 4.70 (m, 1H), 4.00 (m, 1H), 3.38 (s, 3H), 3.23 (s, 3H), 1.35 (d, 3H), 1.20 (m, 6H).
478	δ 1.18 (d, 6H), 1.68 (d, 3H), 2.95 (s, 3H) 2.98 (s, 3H), 4.64 (m, 1H), 4.83 (q, 1H) 7.05 (m, 2H), 7.22 (m, 2H).
479	δ 1.20 (d, 6H), 1.66 (d, 3H), 2.94 (s, 3H), 2.96 (s, 3H), 4.65 (m, 3H), 4.82 (q, 1H), 7.21 (m, 2H), 7.38 (m, 2H).
481	δ 1.20 (m, 6H), 1.68 (d, 3H), 2.94 (s, 3H), 2.99 (s, 3H), 4.64 (m, 1H), 4.82 (q, 1H), 6.89 (m, 2H), 7.33 (m, 1H).
485	δ 7.39 (m, 3H), 7.24 (m, 2H), 4.64 (m, 1H), 4.3 (s, 2H), 2.64 (m, 1H) 1.21 (d, 6H), 1.16 (d, 6H).
486	δ 7.34 (q, 1H), 6.93 (m, 2H), 4.64 (m, 1H), 4.3 (s, 2H), 2.64 (m, 1H), 1.22 (b, 6H), 1.16 (d, 6H).

487	δ 7.37 (d, 2H), 7.18 (d, 2H), 4.64 (m, 1H), 2.65 (m, 1H), 1.19 (m, 12H).
488	δ 7.20 (m, 2H), 7.09 (m, 2H), 4.64 (m, 1H), 4.43 (s, 2H), 1.92 (m, 1H), 1.19 (m, 8H), 1.04 (m, 2H).
490	δ 7.34 (m, 1H), 6.95 (m, 2H), 4.64 (m, 1H), 4.42 (s, 2H), 1.92 (m, 1H), 1.22 (m, 8H), 1.03 (m, 2H).
491	δ 9.53 (s, 1H), 7.24 (m, 2H), 7.1 (m, 2H), 4.64 (m. 1H), 4.35 (s, 2H), 1.2 (b, 6H).
492	δ 7.3-7.2 (m, 2H), 7.1 (m, 2H), 6.1 (bs, 1H), 4.7 (m, 1H), 4.14 (s, 2H), 3.7-3.6 (m, 4H), 1.20 (d, 6H).
493	δ 7.3-7.2 (m, 2H), 7.1 (m, 2H), 5.9 (bs, 1H), 4.7-4.6 (m, 1H), 4.09 (s, 2H), 3.6-3.5 (t, 2H), 3.5 (dt,
	2H), 2.0 (m, 2H), 1.20 (d, 6H).
494	δ 7.4 (m, 3H), 7.3-7.2 (m, 2H), 4.7 (m, 1H), 4.14 (t, 2H), 4.02 (s, 2H), 3.3 (t, 2H), 1.9-1.8 (m, 2H),
	1.21 (d, 6H).
495	δ 7.4 (m, 3H), 7.3-7.2 (m, 2H), 4.7-4.6 (m, 1H), 4.3 (t, 2H), 4.24 (s, 2H), 3.9-3.8 (t, 2H), 1.21 (d,
	6H).
496	δ 7.4-7.3 (m, 3H), 7.2-7.1 (m, 2H), 5.6 (bs, 1H), 4.7-4.6 (m, 1H), 3.9 (s, 2H), 2.0 (bs, 2H), 1.9 (bs, 2H), 1.2 (d, 6H)
497	2H), 1.6-1.4 (m, 4H), 1.2 (d, 6H). 8 7.3 (m, 3H), 7.2 (m, 2H), 5.8 (s, 1H), 4.7-4.6 (m, 1H), 3.94 (s, 2H), 2.7 (m, 2H), 2.4 (m, 2H), 2.2
77/	(b, 2H), 1.2 (d, 6H).
498	8 8.7-8.6 (bs, 1H), 8.5 (bs, 1H), 7.7 (m, 1H), 7.4-7.2 (m, 6H), 5.5 (s, 1H), 5.3 (s, 1H), 4.7-4.6 (m,
_	1H), 4.45 (s, 2H), 1.2 (d, 6H).
500	δ 7.3 (m, 1H), 6.9 (m, 2H), 4.64 (m, 1H), 4.48 (d of t, 2H), 3.65 (t, 2H), 2.42 (m, 2H), 1.2 (m, 6H).
501	δ 7.3 (m, 1H), 6.9 (m, 2H), 4.87 (m, 1H), 4.64 (m, 1H), 3.86 (m, 2H), 3.77 (m, 2H), 3.64 (t, 2H),
	2.05 (m, 2H), 1.2 (m, 6H).
502	δ 7.4 (m, 1H), 6.9 (m, 2H), 4.64 (m, 1H), 4.57 (m, 1H), 3.97 (m.2H), 3.63 (m, 4H), 1.97 (m, 3H),
	1.2 (m, 7H).
503	δ 7.3 (m, 1H), 6.9 (m, 2H), 4.88 (s, 2H), 4.64 (m, 1H), 3.93 (s, 3H), 1.2 (m, 6H).
504	δ 7.4 (m, 1H), 6.9 (m, 2H), 4.92 (s, 2H), 4.65 (m, 1H), 3.59 (q, 2H), 1.2 (m, 9H).
505	δ 7.4 (m, 1H), 6.9 (m, 2H), 4.97 (s, 2H), 4.63 (m, 1H), 3.72 (m, 2H), 3.45 (m, 2H), 3.30 (s, 3H), 1.2
	(m, 6H).
506	8 7.4 (m, 1H), 6.9 (m, 2H), 4.63 (m, 1H), 4.05 (m, 2H), 3.51 (m, 2H), 2.04 (s, 3H), 1.67 (m, 4H), 1.2
507	(m, 6H). δ 7.35 (m, 2H), 6.92 (m, 2H), 4.64 (m, 1H), 3.7 (t, 2H), 2.65 (m, 2H), 1.23 (br s, 6H).
508	δ 7.3 (m, 4H), 7.1 (m, 2H), 6.9 (m, 2H), 4.62 (m, 1H), 3.69 (m, 2H), 2.92 (m, 2H), 1.2 (m, 6H)
509	δ 7.3 (m, 1H), 6.9 (m, 2H), 4.65 (m, 1H), 3.33 (m, 2H), 1.2 (m, 7H), 0.54 (m, 2H), 0.33 (m, 2H)
510	δ 7.3 (m, 1H), 6.9 (m, 2H), 4.63 (m, 1H), 4.37 (s, 2H), 2.43 (s, 3H), 2.24 (s, 3H), 1.2 (m, 6H).
511	8 7.75 (d, 2H), 7.6 (t, 1H), 7.45 (t, 2H), 7.3 (m, 1H), 6.89 (m, 2H), 5.37 (q, 1H), 4.65 (m, 1H), 1.72
512	(d, 3H), 1.2 (br s, 6H).
512	δ 7.3 (m, 1H), 6.9 (m, 2H), 4.65 (m, 1H), 4.23 (s, 2H), 3.36 (q, 2H), 3.26 (q, 2H), 1.21 (m, 9H), 1.11 (t, 3H).
513	δ 7.35 (m, 1H), 6.92 (m, 2H), 4.65 (m, 1H), 3.66 (s, 3H), 3.53 (t, 2H), 2.31 (t, 2H), 1.96 (m, 2H),
	1.22 (br s, 6H).

514	δ.35 (m, 1H), 6.92 (m, 2H), 5.55 (t, 1H), 4.65 (m, 1H), 4.2 (d, 2H), 2.12 (s, 3H), 1.21 (br s, 6H). (3:1 cis/trans mix.)
515	δ 7.35 (m, 1H), 6.92 (m, 2H), 5.2 (t, 1H), 4.65 (m, 1H), 4.04 (d, 2H), 1.72 (m, 6H), 1.21 (br s, 6H).
516	δ 7.35 (m, 1H), 6.92 (m, 2H), 5.73 (m, 1H), 5.0 (m, 2H), 4.65 (m, 1H), 3.48 (t, 2H), 2.04 (q, 2H), 1.74 1.22 (br s, 6H).
517	δ 7.32 (m, 1H), 6.91 (m, 2H), 4.65 (m, 1H), 4.48 (q, 1H), 2.19 (s, 3H), 1.65 (d, 3H), 1.22 (br s, 6H).
518	δ 7.35 (m, 1H), 6.89 (m, 2H), 4.65 (m, 1H), 2.93 (s, 2H), 1.21 (br s, 6H), 0.08 (m, 9H).
519	δ 7.37 (m, 1H), 6.92 (m, 2H), 5.1 (s, 1H), 4.87 (s, 2H), 4.65 (m, 1H), 4.13 (q, 2H), 3.78 (q, 2H), 1.23
520	δ 7.3 (m, 6H), 6.9 (m, 2H), 4.98 (s, 2H), 4.6 (m, 3H), 1.21 (br s, 6H).
521	δ 7.35 (m, 1H), 6.9 (m, 2H), 4.64 (m, 1H), 3.5 (d, 2H), 2.65 (m, 1H), 2.0-1.7 (m, 6H), 1.21 (br s, 6H).
522	δ 7.35 (m, 1H), 6.92 (m, 2H), 4.65 (m, 1H), 4.52 (t, 1H), 4.36 (t, 1H), 3.53 (t, 2H), 1.85-1.6 (m, 4H), 1.22 (br s, 6H).
523	δ 7.35 (m, 1H), 6.9 (m, 2H), 5.8 (m, 1H), 5.4 (m, 1H), 4.65 (m, 1H), 4.0 (d, 2H), 2.03 (m, 2H), 1.21 (br s, 6H), 0.94 (t, 3H)
524	δ 7.32 (m, 1H), 6.92 (m, 2H), 4.65 (m, 1H), 4.24 (s, 2H), 2.47 (q, 2H), 1.21 (br s, 6H), 1.1 (t, 3H).
525	δ 7.33 (m, 1H), 6.93 (m, 2H), 4.65 (m, 1H), 3.75 (t, 2H), 2.48 (m, 2H), 1.22 (br s, 6H).
526	δ 7.33 (m, 1H), 6.93 (m, 2H), 4.65 (m, 1H), 3.55 (t, 2H), 2.1 (m, 2H), 1.92 (m, 2H), 1.23 (br s, 6H)
527	δ 7.39 (m, 2H), 7.22 (m, 2H), 4.93 (s, 2H), 4.66 (septet, J = 6.8 Hz, 1H), 3.62 (apparent t, J = 8.3
	Hz, 2H), 1.22 (d, $J = 6.8$ Hz, 6H), 0.93 (apparent t, $J = 8.3$ Hz, 2H), 0.00 (s, 9H).
528	δ 7.3 (d, 2H), 7.1 (d, 2H), 4.6-4.7 (m, 1H), 3.5 (t, 2H), 1.6 (m, 2H), 1.3 (m, 4H), 1.1 (d, 6H), 0.875 (t, 3H).
529	δ 7.3 (d, 2H), 7.1 (d, 2H), 4.6-4.7 (m, 1H), 3.4 (t, 2H), 1.6 (m, 2H), 1.26 (brd s, 6H), 1.1 (d, 6H), 0.865 (t, 3H).
530	δ 7.3 (d, 2H), 7.1 (d, 2H), 4.6-4.7 (m, 1H), 4.5 (t, 1H), 4.4 (t, 1H), 3.6 (t, 2H), 1.9-2.1 (m, 2H), 1.2 (d, 6H).
531	δ 7.3 (d, 2H), 7.1 (d, 2H), 4.875 (m, 1H), 4.6-4.7 (m, 1H), 3.7-3.9 (m, 4H), 3.648 (t, 2H), 2.046 (m, 2H), 1.1 (d, 6H).
532	δ 7.3 (d, 2H), 7.1 (d, 2H), 4.6-4.7 (m, 1H), 4.561 (m, 1H), 3.9-4.0 (m, 2H), 3.6 (m, 4H), 1.9-2.0 (m, 3H), 1.3 (brd s, 1H), 1.1 (d, 6H).
533	δ 7.3 (d, 2H), 7.1 (d, 2H), 4.886 (s, 2H), 4.6-4.7 (m, 1H), 3.394 (s, 3H), 1.2 (d, 6H).
534	δ 7.4 (d, 2H), 7.2 (d, 2H), 4.922 (s, 2H), 4.6-4.7 (m, 1H), 3.6 (q, 2H), 1.1-1.2 (m, 9H).
535	δ 7.3 (d, 2H), 7.1 (d, 2H), 4.977 (s, 2H), 4.6-4.7 (m, 1H), 3.708 (m, 2H), 3.470 (m, 2H), 3.277 (s,
	3H), 1.2 (d, 6H).
536	δ 7.3 (d, 2H), 7.1 (d, 2H), 4.6-4.7 (m, 1H), 4.056 (t, 2H), 3.508 (t, 2H), 2.039 (s, 3H), 1.6-1.8 (m,
	4H), 1.2 (d, 6H).
537	δ 7.3 (d, 2H), 7.1 (d, 2H), 4.6-4.7 (m, 1H), 3.7 (t, 2H), 2.6-2.8 (m, 2H), 1.2 (d, 6H).

538	δ 7.3 (d, 2H), 7.238 (m, 2H), 7.166 (m, 1H), 7.0-7.1 (m, 4H), 4.6-4.7 (m, 1H), 3.7 (t, 2H), 2.9 (t,
	2H), 1.2 (d, 6H).
539	δ 7.3 (d, 2H), 7.1 (d, 2H), 4.6-4.7 (m, 1H), 3.3 (d, 2H), 1.2 (d, 6H), 1.1-1.2 (m, 1H), 0.56 (q, 2H),
<u></u>	0.3 (q, 2H).
540	δ 7.3 (d, 2H), 7.1 (d, 2H), 4.6-4.7 (m, 1H), 4.369 (s, 2H), 2.436 (s, 3H), 2.245 (s, 3H), 1.1 (d, 6H).
541	δ 7.77 (d, 2H), 7.6 (t, 1H), 7.4 (t, 2H), 7.3 (d, 2H), 7.1 (d, 2H), 5.3-5.4 (q, 1H), 4.6-4.7 (m, 1H), 1.7
	(d, 3H), 1.1 (d, 6H).
542	δ 7.3 (d, 2H), 7.1 (d, 2H), 4.6-4.7 (m, 1H), 4.230 (s, 2H), 3.4 (q, 2H), 3.2-3.2 (q, 2H), 1.239 (t, 3H),
	1.2 (d, 6H), 1.1 (t, 3H).
543	δ 7.3 (d, 2H), 7.1 (d, 2H), 4.6-4.7 (m, 1H), 3.658 (s, 3H), 3.5 (t, 2H), 2.3-2.4 (t, 2H), 1.9-2.0 (m,
	2H), 1.3 (d, 6H).
544	δ 7.3 (d, 2H), 7.1 (d, 2H), 5.5 (t, 1H), 4.6-4.7 (m, 1H), 4.2 (d, 2H), 2.1 (s, 3H), 1.1 (d, 6H) (3:1
	cis/trans mixture).
545	δ 7.3 (d, 2H), 7.1 (d, 2H), 5.2 (t, 1H), 4.6-4.7 (m, 1H), 4.0 (d, 2H), 1.735 (s, 3H), 1.719 (s, 3H), 1.1
	(d, 6H).
546	δ 7.3 (d, 2H), 7.1 (d, 2H), 5.6-5.8 (m, 1H), 4.9 (m, 2H), 4.6-4.7 (m, 1H), 3.4 (t, 2H), 2.0-2.1 (q, 2H),
	1.7-1.8 (m, 2H), 1.2 (d, 6H).
547	δ 7.4-7.37 (m, 2H), 7.19-7.16 (m, 2H), 4.65 (m, 1H), 4.48 (q, 1H), 2.19 (s, 3H), 1.66 (d, 3H), 1.2 (d,
	6H).
548	δ 7.38-7.35 (m, 2H), 7.21-7.18 (m, 2H), 4.65 (m, 1H), 2.93 (s, 2H), 1.2 (d, 6H), 0.08 (s, 9H).
549	δ 7.4 (d, 2H), 7.2 (d, 2H), 5.1 (s, 1H), 4.9 (s, 2H), 4.6-4.7 (m, 1H), 4.1-4.2 (q, 2H), 3.7-3.8 (q, 2H),
	1.3 (t, 3H), 1.1-1.2 (m, 9H).
550	δ 7.3 (d, 2H), 7.1 (d, 2H), 4.6-4.7 (m, 1H), 3.4-3.5 (d, 2H), 2.6-2.7 (m, 1H), 2.0-2.1 (m, 2H), 1.8-1.9
	(q, 2H), 1.1 (d, 6H).
551	δ 7.3 (d, 2H), 7.1 (d, 2H), 4.6-4.7 (m, 1H), 4.5 (t, 1H), 4.3-4.4 (t, 1H), 3.5 (t, 2H), 1.6-1.8 (m, 4H),
	1.2 (d, 6H).
552	δ 7.3 (d, 2H), 7.1 (d, 2H), 5.7-5.9 (m, 1H), 5.3-5.5 (m, 1H), 4.6-4.7 (m, 1H), 4.0 (d, 2H), 2.0-2.1 (m,
<del></del>	2H), 1.1 (d, 6H), 0.9 (t, 3H).
553	δ 7.4 (d, 2H), 7.2 (d, 2H), 4.6-4.7 (m, 1H), 4.244 (s, 2H), 2.4 (q, 2H), 1.2 (d, 6H), 1.087 (t, 3H).
554	δ 7.4 (d, 2H), 7.2 (d, 2H), 4.6-4.7 (m, 1H), 3.7 (t, 2H), 2.4-2.6 (m, 2H), 1.2 (d, 6H).
555	δ 7.4 (d, 2H), 7.2 (d, 2H), 4.6-4.7 (m, 1H), 3.5 (t, 2H), 2.0-2.2 (m, 2H), 1.8-2.0 (m, 2H), 1.1 (d, 6H).
556	δ 7.39 (m, 3H), 7.3 (m, 2H), 4.6-4.7 (m, 1H), 3.45 (t, 2H), 1.56 (m, 2H), 1.3 (m, 2H), 1.2 (d, 6H),
	0.9 (t, 3H).
557	δ 7.38 (m, 3H), 7.26 (m, 2H), 4.6-4.7 (m, 1H), 3.44 (t, 2H), 1.6 (m, 2H), 1.3 (m, 4H), 1.2 (d, 6H),
	0.86 (t, 3H).
558	δ 7.387 (m, 3H), 7.38 (m, 2H), 4.6-4.7 (m, 1H), 3.44 (t, 2H), 1.6 (m, 2H), 1.25 (d, 6H), 1.2 (s, 6H),
	0.859 (t, 3H).
559	δ 7.4 (m, 3H), 7.26 (m, 2H), 4.6-4.7 (m, 1H), 4.53 (t, 1H), 4.37 (t, 1H), 3.61-3.66 (t, 2H), 1.9-2.1
	(m, 2H), 1.2 (d, 6H).

560	δ 7.37 (m, 3H), 7.26 (m, 2H), 4.87 (t, 1H), 4.6-4.7 (m, 1H), 3.8-3.9 (m, 2H), 3.7-3.8 (m, 2H)m 3.63
	(t, 2H), 2.045 (m, 2H), 1.2 (d, 6H).
561	δ 7.3 (m, 3H), 7.26 (m, 2H), 4.6-4.7 (m, 1H), 4.56 (t, 1H), 3.9-4.0 (m, 2H), 3.6 (m, 4H), 1.9 (m,
	3H), 1.259 (t, 1H), 1.2 (d, 6H).
562	δ 7.39 (m, 3H), 7.26 (m, 2H), 4.87 (s, 2H), 4.6-4.7 (m, 1H), 3.377 (s, 3H), 1.2 (d, 6H).
563	δ 7.3 (m, 3H), 7.27 (m, 2H), 4.886 (s, 2H), 4.6-4.7 (m, 1H), 3.547-3.571 (q, 2H), 1.2 (d, 6H), 1.129-
	1.15 (t, 3H).
564	δ 7.38 (m, 3H), 7.26 (m, 2H), 4.966 (s, 2H), 4.6-4.7 (m, 1H), 3.7 (t, 2H), 3.4 (t, 2H), 3.257 (s, 3H),
	1.2 (d, 6H).
565	δ 7.39 (m, 3H), 7.26 (m, 2H), 4.6-4.7 (m, 1H), 4.046 (t, 2H), 3.495 (t, 2H), 2.033 (s, 3H), 1.6-1.8
<u></u>	(m, 4H), 1.2 (d, 2H).
566	δ 7.38 (m, 3H), 7.26 (m, 2H), 4.6-4.7 (m, 1H), 3.66-3.707 (t, 2H), 2.6-2.7 (m, 2H), 1.2 (d, 6H).
567	δ 7.38 (m, 3H), 7.24 (m, 5H), 7.12 (d, 2H), 4.63 (m, 1H), 3.67 (t, 2H), 2.9 (t, 2H), 1.2 (d, 6H).
568	δ 7.39 (m, 3H), 7.26 (m, 2H), 4.6-4.7 (m, 1H), 3.3 (d, 2H), 1.2 (d, 6H), 1.1 (m, 1H), 0.5 (q, 2H), 0.3
	(q, 2H).
569	δ 7.38 (m, 3H), 7.26 (m, 2H), 4.6-4.7 (m, 1H), 4.353 (s, 2H), 2.422 (s, 3H), 2.225 (s, 3H), 1.2 (d,
	6H).
570	δ 7.759 (d, 2H), 7.438 (t, 1H), 7.374 (t, 3H), 7.37 (m, 2H), 7.26 (m, 2H), 5.3-5.4 (q, 1H), 4.6-4.7 (m,
ļ	1H), 1.7 (d, 3H), 1.2 (d, 6H).
571	δ 7.37 (m, 3H), 7.25 (m, 2H), 4.6-4.7 (m, 1H), 4.2 (s, 2H), 3.2-3.3 (q, 2H), 3.3-3.4 (q, 2H), 1.2 (m,
	9H), 1.1 (t, 3H).
572	δ 7.39 (m, 3H), 7.26 (m, 2H), 4.6-4.7 (m, 1H), 3.6 (s, 3H), 3.54 (t, 2H), 2.3 (t, 2H), 1.9 (m, 2H), 1.2
572	(d, 6H).
573	δ 7.39 (m, 3H), 7.26 (m, 2H), 5.5 (t, 1H), 4.6-4.7 (m, 1H), 4.2 (d, 2H), 2.1 (s, 3H), 1.2 (d, 6H).
574	δ 7.39 (m, 3H), 7.26 (m, 2H), 5.1-5.2 (t, 1H), 4.6-4.7 (m, 1H), 4.01-4.039 (d, 2H), 1.7 (d, 6H), 1.2
676	(d, 6H).
575	δ 7.39 (m, 3H), 7.26 (m, 2H), 5.6-5.8 (m, 1H), 4.9-5.1 (m, 2H), 4.6-4.7 (m, 1H), 3.44-3.49 (t, 2H),
576	2.0-2.1 (q, 2H), 1.7-1.8 (m, 2H), 1.2 (d, 6H). 8 7.39 (m, 3H), 7.26 (m, 2H), 4.6-4.7 (m, 1H), 4.4-4.5 (q, 1H), 2.166 (s, 3H), 1.6 (d, 2H), 1.2 (d,
370	6H).
577	δ 7.37 (m, 3H), 7.26 (m, 2H), 4.6-4.7 (m, 1H), 2.9 (s, 2H), 1.2 (d, 6H), 0.6-0.8 (m, 9H).
578	δ 7.4 (m, 3H), 7.26 (m, 2H), 5.1 (s, 1H), 4.862-4.866 (s, 2H), 4.6-4.7 (m, 1H), 4.1-4.2 (q, 2H), 3.7-
270	3.8 (q, 2H), 1.17-1.28 (m, 12H).
579	δ 7.4-7.2 (m, 10H), 4.97 (s, 2H), 4.63 (m, 1H), 4.58 (s, 2H), 1.2 (d, 6H).
580	δ 7.38 (m, 3H), 7.26 (m, 2H), 4.6-4.7 (m, 1H), 3.47-3.49 (d, 2H), 2.6-2.7 (m, 1H), 1.9-2.1 (m, 2H),
200	1.8-1.9 (q, 2H), 1.7-1.8 (q, 2H), 1.2 (d, 6H).
581	δ 7.39 (m, 3H), 7.26 (m, 2H), 4.6-4.7 (m, 1H), 4.5 (t, 1H), 4.3-4.4 (t, 1H), 3.5 (t, 2H), 1.7-1.8 (m,
	3H), 1.6-1.7 (m, 1H), 1.2 (d, 6H).
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582	δ 7.38 (m, 3H), 7.26 (m, 2H), 5.7-5.9 (m, 1H), 5.3-5.4 (m, 1H), 4.6-4.7 (m, 1H), 4.0 (d, 2H), 1.9-2.1
	(m, 2H), 1.2 (d, 6H), 0.9-1.0 (t, 3H).
583	δ 7.39 (m, 3H), 7.26 (m, 2H), 4.6-4.7 (m, 1H), 4.23 (s, 2H), 2.45-2.48 (q, 2H), 1.2 (d, 6H), 1.1 (t, 3H).
584	δ 7.39 (m, 3H), 7.26 (m, 2H), 4.6-4.7 (m, 1H), 3.7 (t, 2H), 2.4-2.6 (m, 2H), 1.2 (d, 6H).
585	δ 7.3 (m, 2H), 7.1 (m, 2H), 4.6-4.7 (m, 1H), 3.5 (t, 2H), 2.0-2.2 (m, 2H), 1.8-2.0 (m, 2H), 1.2 (d, 6H).
587	δ 7.4 (m, 3H), 7.3 (m, 2H), 4.6 (m, 1H), 4.1 (m, 4H), 3.8 (d, 2H), 1.2 (m, 12H).
592	δ 7.4 (m, 2H), 7.2 (m, 2H), 5.1 (m, 1H), 4.7 (m, 1H), 3.3 (s, 3H), 1.7 (d, 3H), 1.2 (d, 6H).
593	δ 7.3 (m, 1H), 6.9 (m, 2H), 5.1 (m, 1H), 4.7 (m, 1H), 3.3 (s, 3H), 1.7 (d, 3H), 1.2 (m, 6H).
594	δ 7.28 (m, 1H), 6.92 (m, 2H), 4.6 (m, 1H), 4.2 (m, 1H), 3.8 (m, 1H), 3.4 (m, 1H), 1.31 (d, 3H), 1.26 (d, 6H).
596	δ 7.22 (m, 2H), 7.09 (m, 2H), 4.65 (m, 1h), 4.4 (m, 2H), 4.2-3.6 (m, 3H), 2.04 (s, 3H), 1.21 (d, 6H).
597	δ 7.39 (m, 2H), 7.16 (m, 2H), 4.6 (m, 1H), 4.2-3.6 (m, 2H), 1.22 (d, 6H).
598	δ 7.28 (m, 1H), 6.9 (m, 2H), 4.63 (m, 1H), 3.8 (s, 2H), 1.26 (b, 6H).
599	δ 7.4 (d, 2H), 7.20 (d, 2H), 4.65 (m, 1H), 4.12 (q, 4H), 4.80 (d, 2H), 1.30 (m, 12H).
600	δ 7.11 (m, 3H), 5.80 (m, 1H), 5.22 (m, 3H), 4.03 (d, 2H), 3.90 (m, 2H), 3.26 (s, 3H), 2.35 (d, 6H), 1.41 (d, 3H).
603	δ 7.38-7.41 (m, 3H), 7.21-7.25 (m, 2H), 4.82-4.89 (m, 1H), 4.59-4.68 (m, 1H), 4.08-4.16 (m, 1H), 3.68-3.74 (m, 1H), 1.57 (d, 3H), 1.21 (d, 6H).
604	δ 7.29-7.37 (m, 1H), 6.90-6.96 (m, 2H), 4.83-4.90 (m, 1H), 4.58-4.67 (m, 1H), 4.09-4.17 (m, 1H), 3.68-3.74 (m, 1H), 1.58 (d, 3H), 1.22 (br s, 6H).
605	δ 7.6 (m, 1H), 7.48 (m, 1H), 7.3 (m, 3H), 7.2 (m, 3H), 5.94 (s, 1H), 5.3 (s, 1H), 4.6 (m, 3H), 1.2 (d, 6H).
606	δ 7.4-7.2 (m, 7H), 6.9 (m, 2H), 5.4 (s, 1H), 5.1 (s, 1H), 4.7-4.6 (m, 1H), 4.4 (s, 2H), 1.2 (d, 6H).
607	δ 7.4 (m, 3H), 7.3-7.2 (m, 2H), 4.9 (s, 1H), 4.8 (s, 1H), 4.7-4.6 (m, 1H), 3.9 (s, 2H), 1.7 (s, 3H), 1.2 (d, 6H).
608	δ 7.4 (m, 3H), 7.2 (m, 2H), 5.4 (s, 2H), 4.7-4.6 (m, 1H), 4.2 (s, 2H), 1.2 (d, 6H).
609	δ 7.39 (m, 3H), 7.26 (m, 2H), 4.82 (m, 1H), 4.64 (m, 1H), 2.41 (s, 1H), 1.60 (d, 3H), 1.22 (d, 6H).
614	δ 7.4 (m, 3H), 7.2 (m, 2H), 4.6-4.7 (m, 1H), 4.0-4.2 (4H), 5.0 (m, 1H), 3.9 (m, 1H), 3.0-3.2 (q of q, 2H), 1.2 (m, 16H)
615	2H), 1.2 (m, 16H).  8 7.2 (m, 2H), 7.0-7.1 (t, 2H), 5.7 (m, 1H), 4.6 (m, 1H), 4.2 (m, 2H), 3.9 (m, 2H), 3.0-3.2 (m, 2H),
616	δ 7.2-7.3 (m, 2H), 7.0-7.1 (m, 2H), 4.6-4.7 (m, 2H), 3.7 (s, 3H), 1.66 (d, 3H), 1.2 (d, 6H).
616	
617	87.3 (m, 2H), 7.1 (m, 2H), 4.6 (m, 1H), 4.3 (m, 1H), 4.1 (m, 4H), 1.6 (m, 6H), 1.2 (m, 12H).
623	87.4 (d, 2H), 7.2 (d, 2H), 4.6-4.7 (m, 2H), 3.742 (s, 3H), 1.6 (d, 3H), 1.2 (d, 6H).

627	δ 7.20 (m, 2H), 7.10 (m, 2H), 4.70 (m, 2H), 3.70 (m, 2H), 3.60 (t, 2H), 3.55 (t, 2H), 3.30 (s, 3H) 1.20 (d, 6H).
629	δ 7.20 (m, 2H), 7.10 (m, 2H), 4.70 (m, 2H), 3.70 (m, 2H), 3.60 (d, 2H), 3.45 (m, 2H), 1.20 (d, 6H), 1.10 (t, 6H).
631	δ 7.35 (m, 3H), 7.28 (m, 2H), 4.70 (m, 1H), 3.65 (t, 2H), 3.54 (t, 2H), 3.30 (s, 3H), 1.22 (d, 6H).
632	δ 7.35 (m, 3H), 7.28 (m, 2H), 4.70 (m, 2H), 3.65 (m, 2H), 3.55 (d, 2H), 3.48 (m, 2H), 1.20 (d, 6H), 1.10 (d, 6H).
634	δ 7.3 (m, 1H), 6.92 (m, 2H), 5.43 (s, 2H), 4.65 (m, 1H), 4.23 (s, 2H), 1.21 (bs, 6H).
635	δ 7.3 (m, 1H), 6.9 (m, 2H), 4.62 (m, 1H), 3.46 (t, 2H), 1.56 (m, 2H), 1.2 (m, 8H), 0.91 (t, 3H).
636	δ 7.3 (m, 1H), 6.9 (m, 2H), 4.64 (m, 1H), 3.45 (t, 2H), 1.64 (m, 2H), 1.2 (m, 10H), 0.87 (t, 3H).
637	δ 7.3 (m, 1H), 6.9 (m, 2H), 4.63 (m, 1H), 3.45 (t, 2H), 1.6 (m, 2H), 1.2 (m, 12H), 0.86 (t, 3H).
639	δ 7.37 (d, 2H), 7.17 (d, 2H), 4.64 (m, 1H), 4.43 (s, 2H), 1.91 (m, 1H), 1.2 (m, 8H), 1.04 (m, 2H).
640	δ 7.21 (m, 2H), 7.09 (m, 2H), 4.65 (m, 1H), 4.19 (s, 2H), 3.3 (m, 1H), 2.4-1.8 (m, 6H), 1.21 (d, 6H).
642	δ 7.34 (m, 1H), 6.94 (m, 2H), 4.65 (m, 1H), 4.19 (s, 2H), 3.3 (m, 1H), 2.4-1.8 (m, 6H), 1.21 (d, 6H).
643	δ 7.37 (d, 2H), 7.17 (d, 2H), 4.65 (m, 1H), 4.19 (s, 2H), 3.3 (m, 1H), 2.4-1.8 (m, 6H), 1.21 (d, 6H).
648	δ 7.3 (m, 2H), 7.2 (m, 3H), 5.0 (s, 1H), 4.8-4.6 (m, 1H), 4.5 (s, 1H), 4.0 (s, 2H), 1.2 (d, 6H).
649	δ 7.3 (m, 3H), 7.2 (m, 2H), 4.9 (s, 1H), 4.8 (s, 1H), 4.7-4.6 (m, 1H), 4.0 (s, 2H), 2.3-2.1 (m, 1H), 1.2 (d, 6H), 1.0 (d, 6H).
650	δ 7.4-7.0 (m, 10H), 5.0 (ABm, 2H), 4.7-4.6 (m, 1H), 3.9 (s, 2H), 3.3 (s, 2H), 1.2 (d, 6H).
651	δ 7.3 (m, 3H), 7.2 (m, 2H), 6.5 (s, 1H), 5.9 (s, 1H), 5.0 (m, 1H), 4.7-4.6 (m, 1H), 3.66 (s, 3H), 1.5 (d, 3H), 1.2 (d, 6H).
652	δ 7.3 (m, 3H), 7.2 (m, 2H), 5.6 (m, 1H), 5.4 (m, 1H), 4.7-4.6 (m, 1H), 2.4 (s, 1H), 1.73 (s, 3H), 1.69 (s, 3H), 1.2 (d, 6H).
655	δ 7.4 (m, 3H), 7.2 (m, 2H), 6.4-6.3 (m, 1H), 5.6-5.5 (m, 1H), 4.7-4.6 (m, 1H), 2.9 (s, 1H), 1.6 (s, 6H), 1.2 (d, 6H).
656	δ 7.22 (m, 2H), 7.09 (m, 2H), 4.63 (m, 2H), 3.95 (m, 2H), 2.07 (m, 2H), 1.94 (m, 2H), 1.60 (d, 3H), 1.18 (d, 6H).
657	δ 7.40 (m, 1H), 6.94 (m, 2H), 4.82 (m, 1H), 4.64 (m, 1H), 2.40 (m, 1H), 1.60 (d, 3H), 1.20 (d, 6H).
658	δ 7.39 (m, 2H), 7.20 (m, 2H), 4.80 (m, 1H), 4.64 (m, 1H), 2.42 (m, 1H), 1.64 (d, 3H), 1.21 (d, 6H).
672	δ 7.26 (m, 2H), 7.09 (m, 2H), 4.67 (m, 1H), 4.4 (m, 1H), 3.9 (m, 2H), 3.8 (m, 2H), 1.22 (d, 6H).
675	δ 7.35 (m, 1H), 6.93 (t, 2H), 4.6 (m, 1H), 3.62 (t, 2H), 2.39 (t, 2H), 2.05 (m, 2H), (br, 6H)
677	δ 7.39 (m, 5H) 7.20 (m, 2H), 7.10 (m, 2H), 5.60 (s, 1H), 4.60 (m, 1.20 (d, 6H), 3.78 (s, 3H), 1.19 (d, 6H).
681	δ 7.3 (d, 2H), 7.2 (d, 2H), 5.0 (m, 1H), 4.6-4.7 (m, 1H), 4.0-4.2 (m, 4H), 3.0-3.3(m, 2H), 1.2-1.3(m, 12H).
682	δ 7.56 (s, 1H), 7.36 (m, 1H), 6.91 (m, 2H), 4.60 (m, 1H), 4.47 (s, 2H), 4.15 (q, 2H), 1.41 (t, 3H), 1.21 (brs, 6H).

683	δ 7.54 (s, 1H), 7.38 (m, 3H), 7.24 (m, 2H), 4.63 (m, 1H), 4.59 (s, 2H), 4.14 (q, 2H), 1.41 (t, 3H), 1.21 (d, 6H).
604	
684	δ 7.56 (s, 1H), 7.36 (m, 2H), 7.19 (m, 2H), 4.63 (m, 1H), 4.48 (s, 2H), 4.15 (q, 2H), 1.41 (t, 3H), 1.19 (d, 6H).
685	δ 7.56 (s, 1H), 7.22 (m, 2H), 7.07 (m, 2H), 4.63 (m, 1H), 4.48 (s, 2H), 4.15 (q, 2H), 1.41 (t, 3H),
	1.19 (d, 6H).
686	δ 7.68 (s, 1H), 7.22 (m, 2H), 7.07 (m, 2H), 5.12 (q, 1H), 4.63 (m, 1H), 4.14 (q, 2H), 1.73 (d, 3H),
	1.41 (t, 3H), 1.18 (d, 6H).
687	δ 7.37 (m, 1H), 6.92 (m, 2H), 4.62 (m, 1H), 3.81 (t, 2H), 2.94 (s, 3H), 2.92 (s, 3H), 2.66 (t, 2H),
	1.22 (m, 6H).
693	δ 9.52 (s, 1H), 7.22 (m, 3H), 7.1 (m, 2H), 4.64 (m, 1H), 4.44 (q, 1H), 1.6 (d, 3H), 1.2 (d, 6H).
694	δ 7.37 (m, 1H), 6.92 (m, 2H), 5.99 (m, 1H), 5.44 (m, 1H), 4.64 (m, 1H), 4.57 (m, 1H), 2.2-1.6 (m,
	6H), 1.21 (br, 6H).
696	δ 7.37 (d, 2H), 7.17 (d, 2H), 5.99 (m, 1H), 5.44 (m, 1H), 4.64 (m, 1H), 4.57 (m, 1H), 2.2-1.6 (m,
	6H), 1.21 (d, 6H).
697	δ 7.4 (m, 3H), 7.15 (m, 2H), 4.65 (m, 1H), 3.90 (m, 8H), 2.20 (m, 2H), 1.22 (d, 6H).
698	δ 7.4 (d, 2H), 7.20 (d, 2H), 4.65 (m, 1H), 3.90 (m, 8H), 2.20 (m, 2H), 1.22 (d, 6H).
701	δ 7.35 (d, 2H), 7.20 (d, 2H), 4.65 (m, 1H), 3.90 (m, 1H), 2.85 (m, 1H), 1.40-2.00 (m, 6H), 1.20 (d,
<del></del>	9H).
702	δ 7.40 (m, 1H), 6.92 (m, 2H), 4.65 (m, 1H), 3.90 (m, 1H), 2.85 (m, 1H), 1.40-2.00 (m, 6H), 1.25 (m, 9H).
705	δ 7.22 (m, 2H), 7.06 (m, 2H), 4.78 (q, 1H), 4.62 (m, 1H), 3.64 (m, 8H), 1.66 (d, 3H), 1.19 (d, 6H).
708	δ 7.29 (m, 1H), 6.92 (m, 2H), 4.65 (m, 1H), 4.4-3.5 (m, 5H), 2.04 (s, 3H), 1.23 (bs, 6H).
712	δ 7.28 (m, 2H), 7.08 (m, 2H), 4.62 (m, 1H), 3.52 (m, 4H), 1.8 (m, 4H), 1.18 (d, 6H).
713	δ 7.23 (m, 2H), 7.08 (m, 2H), 4.61 (m, 1H), 3.66 (t, 2H), 3.5 (t, 2H), 2.11 (m, 2H), 1.21 (d, 6H).
714	δ 7.3 (m, 1H), 6.92 (m, 2H), 4.65 (m, 1H), 4.25 (m, 1H), 3.71 (m, 2H), 1.49 (d, 3H), 1.23 (bs, 6H).
715	δ 7.40 (m, 1H), 6.92 (m, 2H), 4.65 (m, 1H), 3.90 (m, 1H), 3.56 (q, 2H), 3.30 (m, 2H), 1.82 (m, 1H),
	1.50 (m, 5H), 1.20 (m, 6H).
717	δ 7.40 (m, 3H), 7.25 (m, 2H), 4.65 (m, 1H), 3.90 (m, 1H), 2.85 (m, 1H), 1.50-2.00 (m, 6H), 1.25 (d,
	3H), 1.20 (d, 6H)
718	δ 7.25 (m, 2H), 7.10 (m, 2H), 4.65 (m, 1H), 3.90 (m, 1H), 2.85 (m, 1H), 1.50-2.00 (m, 6H), 1.25 (d,
	3H), 1.20 (d, 6H).
720	δ 7.3 (m, 1H), 6.9 (m, 2H), 4.6 (m, 1H), 3.1 (m, 1H), 1.5 (m, 3H), 1.4 (m, 1H), 1.2 (m, 6H), 0.6-0.3
	(m, 4H).
721	δ 7.22 (m, 2H), 7.09 (m, 2H), 4.92 (m, 1H), 4.65 (m, 1H), 4.39 (m, 2H), 2.91 (m, 2H), 1.68 (d, 3H),
-723	1.19 (d, 6H). 8 7 39 (m, 74), 7.20 (m, 2H), 7.10 (m, 2H), 5.60 (e, 1H), 4.60 (m, 1H), 3.78 (e, 2H), 1.19 (d, 6H)
	87.39 (m, 7H) 7.20 (m, 2H), 7.10 (m, 2H), 5.60 (s, 1H), 4.60 (m, 1H), 3.78 (s, 3H), 1.19 (d, 6H).
724	δ 7.40 (m, 7H), 7.15 (d, 2H), 5.60 (s, 1H), 4.60 (m, 1H), 3.79 (s, 3H), 1.20 (d, 6H).

725	δ 7.4 (m, 2H), 7.2 (m, 2H), 5.1 (m, 1H), 4, 6 (m, 1H), 4.1 (m, 1H), 3.8 (m, 1H), 3.4 (s, 3H), 1.2 (d, 6H).
726	δ 7.4 (m, 2H), 7.2 (m, 2H), 5.1 (m, 1H), 4, 6 (m, 1H), 4.1 (m, 1H), 3.9 (m, 1H), 3.4 (s, 3H), 3.3 (s,
727	3H), 1.2 (d, 6H). δ 7.2 (m, 2H), 7.1 (m, 2H), 5.97 br, 1H), 4.65 (m, 1H), 3.65 (m, 2H), 3.45 (m, 2H), 1.91 (s, 3H),
	I.19 (d, 6H).
729	δ 7.39 (m, 3H), 7.25 (m, 2H), 4.91 (q, 1H), 4.64 (m, 1H), 4.37 (m, 2H), 2.92 (m, 2H), 1.67 (d, 3H), 1.20 (d, 6H).
730	δ 7.35 (m, 1H), 6.93 (m, 2H), 4.93 (q, 1H), 4.65 (m, 1H), 4.39 (m, 2H), 2.94 (m, 2H), 1.68 (d, 3H), 1.20 (d, 6H).
731	δ 8.4 (s, 1H), 7.6 (m, 1H), 7.5 (m, 1H), 7.4 (m, 3H), 7.2 (m, 2H), 5.84 (s, 1H), 5.3 (s, 1H), 4.7 (m, 1H), 4.6 (s, 2H), 1.2 (d, 6H).
732	δ 7.3-7.2 (m, 3H), 7.1-7.0 (m, 2H), 6.4 (s, 1H), 5.7 (s, 1H), 4.7-4.6 (m, 1H), 4.3 (s, 2H), 3.75 (s, 3H), 1.2 (d, 6H).
734	δ 7.4 (m, 3H), 7.2 (m, 2H), 5.1 (m, 1H), 4, 6 (m, 1H), 4.1 (m, 1H), 3.9 (m, 1H), 3.4 (s, 3H), 3.3 (s, 3H), 1.2 (d, 6H).
735	δ 7.4 (m, 3H), 7.2 (m, 2H), 5.1 (m, 1H), 4, 6 (m, 1H), 4.1 (m, 1H), 3.8 (m, 1H), 3.4 (s, 3H), 1.2 (d, 6H).
737	δ 7.3 (m, 1H), 6.9 (m, 2H), 5.1 (m, 1H), 4, 6 (m, 1H), 4.1 (m, 1H), 3.8 (m, 1H), 3.4 (s, 3H), 1.2 (d, 6H).
738	δ 7.3 (m, 1H), 6.9 (m, 2H), 5.1 (m, 1H), 4, 6 (m, 1H), 4.1 (m, 1H), 3.9 (m, 1H), 3.4 (s, 3H), 3.3 (s, 3H), 1.2 (d, 6H).
742	δ 7.3 (m, 1H), 6.9 (m, 2H), 4.9 (m, 1H), 4.7 (m, 1H), 3.4-3.6 (m, 2H), 2.1 (m, 1H), 1.9 (m, 1h), 1.2 (m, 9H), 0.9 (t, 3H).
744	δ 7.40 (m, 1H), 6.92 (m, 2H), 4.66 (m, 1H), 3.67 (m, 2H), 2.56 (m, 2H), 1.95 (m, 1H), 1.60 (d, 6H).
746	δ 7.41 (m, 3H), 7.39 (m, 2H), 5.60 (m, 1H), 4.62 (m, 1H), 3.82 (m, 2H) 1.20 (d, 6H).
747	δ 7.38 (m, 3H) 7.25 (m, 2H), 4.66 (m, 1H), 4.25 (m, 1H), 3.65 (m, 2H), 1.49 (d, 3H), 1.20 (d, 6H).
748	δ 7.39 (m, 2H) 7.17 (m, 2H), 4.62 (m, 1H), 4.25 (m, 1H), 3.65 (m, 2H), 1.49 (d, 3H), 1.20 (d, 6H).
750	δ 7.39 (m, 3H) 7.26 (m, 2H), 4.63 (m, 1H), 3.65 (m, 2H), 3, 48 (m, 2H), 2.10 (m, 2H), 1.20 (d, 6H).
753	δ 7.22 (m, 2H), 7.11 (m, 2H), 4.64 (m, 1H), 4.58 (m, 1H), 2.42 (m, 1H), 2.04 (m, 1H), 1.94 (m, 1H), 1.20 (d, 6H), 0.99 (t, 3H).
758	δ 1.20 (m, 6H), 4.07 (m, 2H), 4.17 (s, 2H), 4.32 (m, 2H), 4.62 (m, 1H), 6.92 (m, 2H), 7.36 (m, 1H).
759	δ 7.38 (d, 2H), 7.18 (d, 2H), 4.92 (q, 1H), 4.62 (m, 1H), 4.39 (m, 2H), 2.91 (m, 2H), 1.68 (d, 3H), 1.20 (d, 6H).
763	δ 7.40 (m, 1H), 6.92 (m, 2H), 4.66 (m, 1H), 3.67 (m, 2H), 2.56 (m, 2H), 1.95 (m, 1H), 1.60 (d, 6H).
764	δ 7.38 (m, 1H), 6.93 (m, 2H), 4.62 (m, 1H), 4.25 (s, 2H), 2.37 (m, 1H), 1.25 (d, 6H)
765	-δ 1.20 (m, 6H), 4.24-(S, 2H), 4.25-(M, 2H), 4.38 (M, 2H), 4.63 (M, 1H), 7.09 (M, 2H), 7.24 (M, 2H).

766	δ 7.25 (m, 2H), 7.15 (m, 1H), 4.95 (brs, 1H), 4.65 (m, 1H), 4.16 (m, 2H), 3.39 (s, 3H), 2.19 (m, 1H), 1.92 (m, 3H), 1.19 (d, 6H).
767	8 7.26 (m, 2H), 7.11 (m, 2H), 4.64 (m, 1H), 3.67 (t, 2H), 2.56 (m,2H), 1.96 (m,1H), 1.21 (d, 6H).
768	8 7.38 (m, 3H), 7.26 (m, 2H), 4.64 (m, 1H), 3.66 (t, 2H), 2.54 (m, 2H), 1.92 (m, 1H), 1.22 (d, 6H).
769	δ 7.39 (m, 3H), 7.24 (m, 2H), 4.74 (s, 2H), 4.62 (m, 1H), 3.18 (m, 1H), 1.35 (d, 6H), 1.21 (d 6H).
771	δ 8.3 (d, 1H), 7.6 (dd, 1H), 7.4 (d, 1H), 4.7 (septet, 1H), 4.2 (septet, 1H), 1.40 (d, 3H), 1.21 (d, 3H).
772	δ 7.4 (m, 2H), 7.2 (m, 2H), 4.9 (m, 1H), 4.7 (m, 1H), 3.4-3.6 (m, 2H), 2.1 (m, 1H), 1.9 (m, 1H), 1.2 (m, 9H), 0.9 (t, 3H).
773	δ 7.4 (m, 2H), 7.2 (m, 2H), 4.9 (m, 1H), 4.7 (m, 1H), 3.4-3.6 (m, 2H), 2.1 (m, 1H), 1.9 (m, 1H), 1.2 (m, 9H), 0.9 (t, 3H).
774	δ 7.3 (m, 1H), 6.9 (m, 2H), 4.9 (m, 1H), 4.7 (m, 1H), 3.4-3.6 (m, 2H), 2.1 (m, 1H), 1.9 (m, 1H), 1.2 (m, 9H), 0.9 (t, 3H).
776	δ 7.3 (m, 1H), 6.90 (m, 2H), 4.65 (m, 1H), 4.20 (m, 5H), 1.70 (m, 3H), 1.25 (m, 12H).
778	δ 7.4 (m, 1H), 6.90 (m, 2H), 4.65 (m, 1H), 3.60 (m, 7H), 2.85 (m, 3H), 1.21 (m, 6H).
779	δ 7.4 (d, 2H), 7.2 (d, 2H), 4.65 (m, 1H), 3.60 (m, 7H), 2.85 (m, 3H), 1.21 (m, 6H).
782	δ 7.22 (m, 2H), 7.09 (t, 2H), 5.93 (t, 1H), 4.62 (m, 1H), 4.21 (d, 2H), 1.2 (d, 6H).
783	δ 7.38 (m, 1H), 6.96 (m, 2H), 4.60 (m, 2H), 2.40 (m, 1H), 2.10-1.80 (m, 2H), 1.22 (m, 1H), 0.94 (m,
	3Н).
784	δ 7.39 (m, 2H), 7.20 (m, 2H), 4.64 (m, 1H), 4.25 (m, 2H), 2.33 (m, 1H), 1.21 (d, 6H).
785	δ 7.35 (m, 1H), 6.92 (m, 2H), 5.32 (q, 1H), 4.62 (m, 1H), 2.31 (s, 3H), 2.24 (s, 3H), 1.83 (d, 3H), 1.22 (br, 6H).
792	δ 7.39 (m, 3H) 7.25 (m, 2H), 4.61 (m, 1H), 3.52 (m, 4H), 1.80 (m, 4H), 1.20 (d, 6H).
797	δ 7.4 (m, 3H), 7.3-7.1 (m, 2H), 5.5 (bs, 1H), 4.7-4.6 (m, 1H), 3.94 (bs, 2H), 2.35 (s, 2H), 2.3-2.2 (m, 2H), 2.0 (m, 2H), 1.2 (d, 6H), 1.2 (s, 6H).
800	δ 7.38 (m, 3H), 7.25 (m, 2H), 4.64 (m, 1H), , 2.35 (m, 1H), 1.21 (d, 6H), 1.15 (s, 3H), 1.05 (m, 1H), 0.94 (m, 4H).
801	δ 7.37 (d, 2H), 7.19 (d, 2H), 4.64 (m, 1H), 2.37 (m, 1H), 1.19 (m, 9H), 1.07 (m, 1H), 0.96 (m, 4H).
802	δ 7.37 (m, 1H), 6.91 (m, 2H), 4.64 (m, 1H), 2.37 (m, 1H), 1.19 (m, 9H), 1.07 (m, 1H), 0.96 (m, 4H).
803	δ 7.39 (m, 3H), 7.26 (m, 2H), 4.64 (m, 1H), 4.52 (m, 1H), 2.40 (m, 1H), 2.04 (m, 1H), 1.92 (m, 1H),
	1.44 and 0.98 (t, 3H), 1.22 (d, 6H).
804	δ 7.38 (m, 2H), 7.21 (m, 2H), 4.64 (m, 1H), 3.67 (t, 2H), 2.56 (m, 2H), 1.96 (m, 1H), 1.22 (d, 6H).
805	δ 7.25 (m, 2H), 7.08 (m, 2H), 4.65 (m, 1H), 4.40 (m, 1H), 3.70 (m, 4H), 1.20 (d, 6H).
808	δ 7.39 (m, 2H), 7.20 (m, 2H), 7.64 (m, 1H), 4.58 (m, 1H), 2.43 (m, 1H), 2.40 (m, 1H), 1.92 (m, 1H),
	1.21 (d, 6H), 0.97 (t, 3H).
810	δ 7.22 (m, 2H), 7.09 (m, 2H), 4.46 (m, 1H), 4.95 (m, 1), 4.64 (m, 1H), 3.02 (m, 1H), 2.76 (m, 1H),
	-1.68 (d, 3H), 1.20 (d, 6H).

811	δ 7.21 (m, 2H), 7.11 (m, 2H), 4.98 (m, 1H), 4.64 (m, 1H), 3.89 (m, 1H), 2.98 (dd, 1H), 2.69 (dd, 1H), 1.5 (d, 3H), 1.20 (d, 6H).
812	δ 7.42 (m, 3H), 7.40 (m, 2H), 5.44 (m, 1H), 4.93 (m, 1H), 4.64 (m, 1H), 2.80 (m, 1H), 2.70 (m, 1H),
012	
914	1.28 (d, 3H), 1.22 (d, 6H).
814	δ 7.39 (d, 2H), 7.17 (d, 2H), 7.11 (brs, 1H), 4.92 (m, 1H), 4.64 (m, 1H), 3.89 (m, 1H), 3.02 (m, 1H),
	2.70 (m, 1H), 1.52 (d, 3H), 1.20 (d, 6H).
815	δ 7.32 (m, 1H), 7.11 (brs, 1H), 6.94 (m, 2H), 4.88 (m, 1H), 4.64 (m, 1H), 3.90 (m, 1H), 3.01 (m,
	1H), 2.70 (m, 1H), 1.51 (d, 3H), 1.23 (br, 6H).
816	δ 7.40 (m, 3H), 7.23 (m, 2H), 7.09 (brs, 1H), 4.91 (m, 1H), 4.66 (m, 1H), 3.88 (m, 1H), 3.00 (m,
ļ	1H), 2.70 (m, 1H), 1.50 (d, 3H), 1.21 (d, 6H).
817	δ 7.28 (m, 1H), 6.91 (m, 2H), 4.63 (m, 1H), 4.11 (m, 1H), 1.28 (d, 3H), 1.22 (d, 6H).
819	δ 7.22 (m, 2H), 7.08 (m, 2H), 4.62 (m, 1H), 3.78 (d, 1H), 3.50 (d, 1H), 2.70 (d, 1H), 2.60 (d, 1H),
	1.33 (s, 3H), 1.18 (d, 6H).
822	δ 7.40 (m, 2H), 6.92 (m, 2H), 4.60 (m, 1H), 3.66 (m, 2H), 3.50 (m, 2H), 2.05 (m, 2H), 1.26 (d, 6H).
823	δ 7.40 (m, 2H), 6.92 (m, 2H), 4.61 (m, 1H), 3.54 (m, 4H), 1.80 (m, 4H), 1.22 (d, 6H).
824	δ 7.39 (m, 3H), 7.24 (m, 2H), 4.62 (m, 1H), 4.30 (m, 1H), 3.90 (m, 1H), 3.70 (m, 1H), 3.60 (m, 1H),
	3.30 (s, 3H), 1.22 (d, 6H).
825	δ 7.21 (m, 2H), 7.08 (m, 2H), 4.62 (m, 1H), 4.30 (m, 1H), 3.90 (m, 1H), 3.71 (m, 1H), 3.60 (m, 1H),
	3.30 (s, 3H), 1.22 (d, 6H).
829	δ 4.66 (s, 1H), 4.5 (m, 1H), 4.3 (m, 1H), 1.48 (d, 6H), 1.42 (s, 9H), 1.28 (d, 6H).
837	δ 7.20 (m, 2H), 7.10 (m, 2H), 5.65 (m, 2H), 5.05 (d, 1H), 4.65 (m, 1H), 4.20 (m, 4H), 1.45 (d, 3H),
	1.20 (d, 6H).
839	δ 7.12-7.2 (m, 3H), 4.62 (m, 1H), 4.17 (m, 1H), 1.39 (d, 6H), 1.25 (d, 6H).
840	δ 7.23 (m, 2H), 7.1 (m, 2H), 4.2 (m, 1H), 3.80 (q, 2H), 1.40 (d, 6H), 1.27 (t, 3H).
841	δ 7.38 (d, 2H), 7.18 (d, 2H), 6.0 (m, 1H), 5.25 (m, 2H), 4.6 (m, 2H), 1.5 (d, 3H), 1.2 (d, 6H).
842	δ 7.38 (d, 2H), 6.93 (m, 2H), 5.98 (m, 1H), 5.24 (m, 2H), 4.6 (m, 2H), 1.49 (d, 3H), 1.22 (br, 6H).
843	δ 7.4 (m, 3H), 7.25 (m, 2H), 6.0 (m, 1H), 5.22 (m, 2H), 4.6 (m, 2H), 1.48 (d, 3H), 1.2 (d, 6H).
845	δ 7.38 (d, 2H), 6.93 (m, 2H), 4.9 (s, 2H), 4.64 (m, 1H), 4.41 (m, 1H), 3.45 (m, 2H), 2.95 (m, 2H),
	1.21 (d, 6H).
846	δ 7.4 (m, 3H), 7.25 (m, 2H), 4.89 (s, 2H), 4.64 (m, 1H), 4.41 (m, 1H), 3.45 (m, 2H), 2.95 (m, 2H),
	1.21 (d, 6H).
849	δ 9.53 (s, 1H), 7.39 (d, 2H), 7.19 (d, 2H), 4.64 (m, 1H), 4.44 (q, 1H), 1.6 (d, 3H), 1.21 (d, 6H).
850	δ 9.51 (s, 1H), 7.4 (d, 3H), 7.25 (m, 2H), 4.64 (m, 1H), 4.42 (q, 1H), 1.58 (d, 3H), 1.21 (d, 6H).
852	87.42 (s,1H), 7.37 (m, 2H), 7.18 (m, 2H), 4.63 (m, 1H), 4.48 (s, 2H), 3.81 (s, 3H), 1.20 (d, 6H).
853	δ 7.44 (s, 1H), 7.38 (m, 2H), 7.24 (m, 3H), 4.63 (m, 1H), 4.47 (s, 2H), 3.80 (s, 3H), 1.20 (d, 6H).
633	0 1.44 (8, 111), 1.30 (III, 211), 1.24 (III, 311), 4.03 (III, 111), 4.47 (8, 211), 3.00 (8, 311), 1.20 (II, 011).

854	δ 7.47 (s, 1H), 7.37 (m, 1H), 6.93 (m, 2H), 4.62 (m, 1H), 4.49 (s, 2H), 3.81 (s, 3H), 1.21 (brs, 6H).
866	δ 7.34 (m, 2H), 6.91 (m, 2H), 5.33 (m, 1H), 4.62 (m, 1H), 3.92 (s, 2H), 1.91 (m, 3H), 1.21 (brs, 6H).
871	δ 7.40 (m, 2H), 7.19 (m, 2H), 4.65 (m, 1H), 4.30 (m, 1H), 3.95 (dd, 1H), 3.75 (m, 1H), 3.60 (m,
	1H), 3.30 (s, 3H), 1.22 (d, 6H).
872	δ 7.30 (m, 1H), 6.92 (m, 2H), 4.62 (m, 1H), 4.30 (m, 1H), 3.90 (m, 1H), 3.73 (m, 2H), 3.60 (m, 1H),
	3.30 (s, 3H), 1.26 (d, 6H).
876	δ 7.36 (m, 2H), 7.17 (m, 2H), 4.60 (m, 1H), 4.12 (m, 1H), 1.20 (d, 3H), 1.19 (d, 6H).
882	δ 7.38 (m, 3H), 7.25 (m, 2H), 4.62 (m, 2H), 2.40 (m, 1H), 2.00-1.80 (m, 2H), 1.50-1.30 (m, 2H),
	1.20 (d, 6H), 0.92 (t, 3H).
884	δ 7.23 (m, 2H), 7.08 (m, 2H), 5.75 (m, 1H), 5.21 (m, 2H), 4.65 (m, 1H), 4.41 (s, 1H), 4.32 (s,1H),
1	4.25 (s, 1H), 3.98 (s, 1H), 3.91 (d, 1H), 3.86 (s, 1.5H), 3.78 (d, 1H), 3.74 (s, 1.5H), 1.20 (d, 6H).
	syn/anti mixture
885	δ 7.37 (m, 3H), 7.26 (m, 2H), 5.75 (m, 1H), 5.20 (m, 2H), 4.63 (m, 1H), 4.39 (s, 1H), 4.31 (s, 1H),
	4.24 (s, 1H), 3.94 (s, 1H), 3.89 (d, 1H), 3.84 (s, 1.5H), 3.75 (d, 1H), 3.73 (s, 1.5H), 1.20 (d, 6H).
	syn/anti mixture
886	δ 7.36 (m, 1H), 6.91 (m, 2H), 5.80 (m, 1H), 5.21 (m, 2H), 4.63 (m, 1H), 4.40 (s, 1H), 4.32 (s, 1H),
	4.25 (s, 1H), 3.96 (s, 1H), 3.92 (d, 1H), 3.85 (s, 1.5H), 3.80 (d, 1H), 3.73 (s, 1.5H), 1.20 (br, 6H)
	syn/anti mixture
887	δ 7.36 (d, 2H), 7.20 (d, 2H), 5.76 (m, 1H), 5.19 (m, 2H), 4.64 (m, 1H), 4.41 (s, 1H), 4.32 (s, 1H),
	4.25 (s, 1H), 3.95 (s, 1H), 3.91 (d, 1H), 3.86 (s, 1.5H), 3.78 (d, 1H), 3.74 (s, 1.5H), 1.20 (d, 6H).
	syn/anti mixture
888	δ 7.4 (d, 2H), 7.29 (d, 2H), 4.63 (m, 1H), 4.15 (m, 1H), 3.58 (m, 2H), 1.49-1.27 (m, 9H).
892	δ 7.20 (m, 2H), 7.08 (t, 2H), 4.65 (m, 1H), 3.70 (m, 1H), 3.42 (m, 2H), 3.30 (m, 2H), 3.12 (s, 3H),
	1.90 (m, 3H), 1.50 (m, 1H), 1.20 (m, 6H).
898	δ 7.20 (m, 2H), 7.08 (t, 2H), 4.97 (d, 1H), 4.65 (m, 1H), 3.90 (m, 2H), 3.80 (m, 1H), 3.62 (m, 1H), 3.47 (m, 1H), 1.50 (m, 4H), 1.40 (d, 3H), 1.20 (m, 6H).
900	δ 7.30 (m, 9H), 4.63 (m, 1H), 4.44 (s, 1H), 4.39 (s, 1H), 4.34 (s, 1H), 4.29 (s, 1H), 4.25 (s, 1H), 3.96
	(s, 1H), 3.83 (s, 1.5H), 3.71 (s, 1.5H), 1.21 (m, 6H). syn/anti mixture
901	δ 7.30 (m, 10H), 4.63 (m, 1H), 4.44 (s, 1H), 4.39 (s, 1H), 4.34 (s, 1H), 4.29 (s, 1H), 4.25 (s, 1H),
!	3.96 (s, 1H), 3.83 (s, 1.5H), 3.71 (s, 1.5H), 1.21(m,6H). syn/anti mixture
902	δ 7.23 (m, 2H), 7.08 (m, 2H), 4.65 (m, 1H), 4.39 (s, 1H), 4.29 (s, 1H), 4.20 (s, 1H), 3.91 (s, 1H),
	3.86 (s, 1.5H), 3.74 (s, 1.5H), 3.28 (s, 1.5H), 3.14 (s, 1.5H), 1.20 (d, 6H). syn/anti mixture
903	δ 7.37 (m, 3H), 7.26 (m, 2H), 4.64 (m, 1H), 4.38 (s, 1H), 4.28 (s, 1H), 4.19 (s, 1H), 3.89 (s, 1H),
	3.85 (s, 1.5H), 3.74 (s, 1.5H), 3.27 (s, 1.5H), 3.10 (s, 1.5H), 1.20 (d, 6H). syn/anti mixture
904	δ 7.37 (m, 3H), 7.26 (m, 2H), 4.64 (m, 1H), 4.38 (s, 1H), 4.28 (s, 1H), 4.19 (s, 1H), 3.89 (s, 1H),
	3.85 (s, 1.5H), 3.74 (s, 1.5H), 3.27 (s, 1.5H), 3.10 (s, 1.5H), 1.20 (d, 6H). 4:1 syn/anti mixture

905	δ 7.35 (d, 2H), 7.27 (d, 2H), 4.39 (m, 2H), 4.15 (m, 1H), 3.40 (s, 3H), 3.38 (s, 3H), 1.39 (d, 6H),
	1.26 (d, 3H).
908	δ 7.36 (m, 3H), 7.26 (m, 2H), 4.35 (m, 2H), 4.15 (m, 1H), 1.70 (d, 3H), 1.38 (m, 6H).
909	δ 7.28 (m, 2H), 7.09 (m, 2H), 4.38 (m, 2H), 4.18 (m, 1H), 1.68 (d, 3H), 1.38 (m, 6H).
913	δ 7.4 (m, 3H), 7.25 (m, 2H), 4.64 (m, 1H), 3.71 (t, 2H), 2.84 (t, 2H), 2.14 (s, 3H), 1.21 (d, 6H).
914	δ 9.73 (s, 1H), 7.22 (m, 2H), 7.09 (m, 2H), 4.64 (m, 1H), 3.81 (t, 2H), 2.88 (t, 2H), 1.2 (d, 6H).
915	δ 7.35 (m, 1H), 6.92 (m, 2H), 4.63 (m, 1H), 3.51 (t, 2H), 2.45 (t, 2H), 2.11 (s, 3H), 1.89 (m, 2H),
	1.22 (br, 6H).
916	δ 7.37 (m, 2H), 7.18 (m, 2H), 4.64 (m, 1H), 3.51 (t, 2H), 2.45 (t, 2H), 2.11 (s, 3H), 1.89 (m, 2H),
ļ	1.22 (br, 6H).
917	δ 7.37 (m, 2H), 7.21 (m, 2H), 4.62 (m, 2H), 2.40 (m, 1H), 2.00-1.80 (m, 2H), 1.50-1.30 (m, 2H),
	1.20 (d, 6H), 0.92 (t, 3H).
919	δ 7.34 (m, 5H), 4.42 (m, 2H), 4.18 (m, 1H), 3.74 (s, 3H), 3.42 (s, 3H), 1.37 (d, 6H), 1.27 (m, 3H).
920	δ 7.30 (m, 2H), 7.09 (m, 2H), 4.38 (m, 2H), 4.18 (m, 1H), 3.41 (s, 3H), 3.38 (s, 3H), 1.39 (d, 6H),
	1.27 (m, 3H).
922	δ 7.36 (d, 2H), 7.20 (d, 2H), 4.64 (m, 1H), 4.39 (s, 1H), 4.29 (s, 1H), 4.20 (s, 1H), 3.91 (s, 1H), 3.86
	(s, 1.5H), 3.74 (s, 1.5H), 3.28 (s, 1.5H), 3.14 (s, 1.5H), 1.20 (d, 6H). syn/anti mixture
923	δ 7.38 (m, 1H), 6.91 (m, 2H), 4.64 (m, 1H), 4.39 (s, 1H), 4.29 (s, 1H), 4.19 (s, 1H), 3.91 (s, 1H),
	3.86 (s, 1.5H), 3.74 (s, 1.5H), 3.29 (s, 1.5H), 3.15 (s, 1.5H), 1.20 (br, 6H). syn/anti mixture
927	δ 7.37 (m, 2H), 6.91 (m, 2H), 6.15 (m, 1H), 5.55 (m, 1H), 5.00 (m, 1H), 4.64 (m, 1H), 2.7 (m, 1H),
	2.30 (m, 2H), 1.98 (m, 1H), 1.2 (br, 6H).
929	δ 7.4 (m, 3H), 7.25 (m, 2H), 6.17 (m, 1H), 5.55 (m, 1H), 5.00 (m, 1H), 4.64 (m, 1H), 2.7 (m, 1H),
	2.3 (m, 2H), 1.99 (m, 1H), 1.2 (d, 6H).
930	δ 7.24 (m, 3H), 7.10 (m, 2H), 4.65 (m, 2H), 3.8 (m, 2H), 3.39 (m, 2H), 1.21 (d, 6H).
935	δ 7.35 (m, 1H), 6.91 (m, 2H), 4.63 (m, 1H), 3.74 (t, 2H), 2.85 (t, 2H), 2.15 (s, 3H), 1.21 (br, 6H).
947	δ 7.31 (m, 1H), 6.89 (m, 2H), 4.6 (m, 1H), 3.75 (m, 1H), 2.72 (m, 4H), 2.4 (m, 2H), 2.00 (m, 2H),
	1.23 (m, 6H).
952	δ 7. 51 (m, 3H), 7.24 (m, 2H), 6.86 (q, 1H), 4.31 (m, 1H), 1.97 (d, 3H), 1.49 (d, 6H).
953	δ 7.34 (m, 5H), 4.22 (m, 1H), 2.14 (s, 3H), 1.92 (s, 3H), 1.44 (d, 6H).
955	δ 7.43 (m, 5H), 4.64 (m, 1H), 4.17 (m, 1H), 3.79 (d, 4H), 1.38 (d, 6H).
956	δ 7.44 (m, 2H), 7.12 (m, 2H), 4.19 (m, 1H), 4.13 (m, 2H), 3.78 (d, 4H), 1.40 (d, 6H).
959	δ 7.38 (m, 3H), 7.26 (m, 2H), 4.64 (m, 1H), 4.26 (m, 1H), 2.41 (m, 2H), 1.22 (m, 6H), 1.10 (d, 3H),
	0.85 (d, 3H).
962	δ 7.22 (m, 2H), 7.10 (m, 2H), 4.64 (m, 1H), 3.51 (t, 2H), 2.45 (t, 2H), 2.11 (s, 3H), 1.90 (m, 2H), 1.2
	(d, 6H).

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963	δ 7.39 (m, 3H), 7.26 (m, 2H), 4.64 (m, 1H), 3.50 (t, 2H), 2.43 (t, 2H), 2.11 (s, 3H), 1.89 (m, 2H), 1.2
	(d, 6H).
964	δ 9.73 (s, 1H), 7.37 (m, 1H), 6.93 (m, 2H), 4.63 (m, 1H), 3.81 (t, 2H), 2.89 (t, 2H), 1.22 (br, 6H).
965	δ 9.72 (s, 1H), 7.39 (m, 3H), 7.25 (m, 2H), 4.64 (m, 1H), 3.79 (t, 2H), 2.87 (t, 2H), 1.21 (br, 6H).
967	δ 7.22 (m, 2H), 7.08 (m, 2H), 4.64 (m, 1H), 3.94 (m, 1H), 2.78 (m, 1H), 2.58 (m, 1H), 2.00-1.70 (m,
	3H), 1.26 (m, 2H), 1.20 (m, 6H), 0.90 (m, 3H).

a 1H NMR data are in ppm downfield from tetramethylsilane. Couplings are designated by (s)-singlet, (d)-doublet, (t)-triplet, (q)-quartet, (m)-multiplet, (dd)-doublet of doublets, (dt)-doublet of triplets, (br s)-broad singlet.

## TEST A 5

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Seeds of barnyardgrass (Echinochloa crus-galli), crabgrass (Digitaria spp.), morningglory (Ipomoea spp.), and velvetleaf (Abutilon theophrasti) were planted into a sandy loam soil and treated preemergence by soil drench with test chemicals formulated in a non-phytotoxic solvent mixture which includes a surfactant. At the same time, these crop and weed species were also treated postemergence sprayed to runoff, with test chemicals formulated in the same manner.

Plants ranged in height from two to eighteen cm and were in the one to two leaf stage for the posternergence treatment. Treated plants and untreated controls were maintained in a greenhouse for approximately eleven days, after which all treated plants were compared to untreated controls and visually evaluated for injury. Plant response ratings, summarized in Table A, are based on a 0 to 10 scale where 0 is no effect and 10 is complete control.

Table A							C	OMP(	OUN	D						
Rate 2000 g/ha	1	2	3	10	42	43	52	53	99	114	127	128	136	137	177	183
Pre-emergence																
Barnyardgrass	9	9		10	0	_	9	-	9		9	0	9	10	9	9
Crabgrass	9			9			10	9	10	10	8	0	10	10	9	5
Morningglory	0	0	0	1	0	0	0	0	2	6	0	0	0	3	0	0
Velvetleaf	0	0	0	2	0	0	0	0	3	6	0	0	0	5	1	0
					_											
Table A				INUC												
Rate 2000 g/ha	184	4 22	25	377	7 38	36										
Pre-emergence																
Barnyardgrass	9		)	0	(	)										
Crabgrass	9	10	)	0	(	)										
Morningglory	0	8		0	(	)										
Velvetleaf	0	•	7	0	(	)										
Table A							(	OME	ALIOS	JD.						
Rate 1000 g/ha	1	2	3	10	42	43					127	128	136	137	177	183
Barnyardgrass	8	8		9		0	5		7	8	6	0	4	8	0	0
Crabgrass	-	-	-	. 8	_	_	. 8	-	-	_	7.	-	- 6	-	. 3	1
	0										0	0	9		0	ō
Morningglory	-	0	0		0	0			2		0	0	2	2	2	0
Velvetleaf	0	0	0	4	0	0	1	1	2	5	U	U	4	4	4	U

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Table	A		(	COMP	DUND	
Rate	1000	g/ha	184	225	377	386
Poste	merger	ice				
Barny	ardgra	ass	2	9	0	0
Crabg	rass		1	9	0	0
Morni	nggloi	-y	10	10	0	0
Velve	tleaf	_	2	3	0	0

## **TEST B**

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Seeds of bedstraw (Galium aparine), blackgrass (Alopecurus myosuroides), surinam grass (Brachiaria decumbens), cocklebur (Xanthium strumarium), corn (Zea mays), crabgrass (Digitaria sanguinalis), giant foxtail (Setaria faberii), morningglory (Ipomoea hederacea), pigweed (Amaranthus retroflexus), rape (Brassica napus), soybean (Glycine max), sugar beet (Beta vulgaris), velvetleaf (Abutilon theophrasti), wheat (Triticum aestivum), wild oat (Avena fatua) and purple nutsedge (Cyperus rotundus) tubers were planted and treated preemergence with test chemicals formulated in a non-phytotoxic solvent mixture which included a surfactant.

At the same time, these crop and weed species were also treated with postemergence applications of test chemicals formulated in the same manner. Plants ranged in height from 2 to 18 cm (1- to 4-leaf stage) for postemergence treatments. Plant species in the flood test consisted of rice (*Oryza sativa*), smallflower flatsedge (*Cyperus difformis*), duck salad (*Heteranthera limosa*) and barnyardgrass (*Echinochloa crus-galli*) grown to the 2-leaf stage for testing. Treated plants and controls were maintained in a greenhouse for twelve to sixteen days, after which all species were compared to controls and visually evaluated. Plant response ratings, summarized in Table B, are based on a scale of 0 to 10 where 0 is no effect and 10 is complete control. A dash (-) response means no test result.

rabl B										õ	COMPOUND	Д											
Rate 2000 g/ha	7 1	18 3	30	36 4	46 4	47 7	78 86	5 87	93	94	103	105 3	107 1	108 1	109 1	111 11	113 116	.6 117	17 118	8 119	9 121		122
Pre-emergence																							
Barnyardgrass	0	ი	0	0	Φ							0	0	0	6	9	თ	6				6	0
Ducksalad		0	0	0	~							0	0	0	9	0	æ	œ				0	0
Rice	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	7	4	0	0	0	ស	0
S. Flatsedge		0	0	0	œ							0	2	0	œ	0	0	6				6	0
Table B			ับ	OMPO	Z	_																	
Rate 2000 g/ha	123	12	7	125 1	139	154	177	7 183		274													
Pre-emergence																							
Barnyarddrass	0	_	0	0	9	0		C	0	0													
Ducksalad	0	_	0	0	7	0		0	0	0													
Rice	0	_		0	0	0		C	0	0													
S. Flatsedge	0	_	0	0	0	0		C	0	0													
Tabl B			Ű	OMPC	MINIC	_																	
Rate 2000 g/ha	157	177	7 1	83																			
Postemergence																							
B. signalgrass	ı	-	0	0																			
Barnyardgrass	0		F	ı																			
Bedstraw	ı		ı	ı																			
Blackgrass	1		9	0																			
Cocklebur	1		0	7																			
Corn	ı		0	0																			
Crabgrass	1		0	0																			
Ducksalad	0		1	1																			
Giant foxtail	١		~	0																			
Morningglory	•		ч	Ŋ																			
Nutsedge	1		0	0																			
Rape	1		۳	0																			
Redroot pigweed	1		٣	0																-			
Rice	0		ı	ŧ																			
S. Flatsedge	0		ı	ı																			
Soybean	1		4	m																			
Sugarbeets	ı		0	0																			
Velvetleaf	1		4	-																			

rass 0 0 0 0 0 0 3 0 0 0 0
Ducksalad 0 0 0 0 0 0 0 0 0 0 0 0 0

						9//	*	c	> 1	<b>!</b> (	c	2 د	· c	· c	• 1	<b>C</b>	α	· c	, c	· c	) (		٧	· c	, ,	1 C	•	#						
						7117		c	<b>1</b> 1	•	7	۰ د	· c	0	, 1	C	<u></u>	2	0	· c	) 1	•	v	· c	· c	· c	•	>						
						365		<	۱ د	1	_	· c	0	0	1	0	0	0	0	0	,	i	~			· c	o c	>						
						302		c	· 1	C	y ve	· c	, 0	-	,	7	٠ ،	· C	0	· ~	, ,	,	r.	~	· c	, -	1 0	>						
681	<b>-</b>	· c	· c	> <	•	280	3	c	۱ (	c	· c	0	0	0		0	0	0	0	m		ı	Ŋ	· c	0	· c	· c	>						
089	C	· c	· -	· c	•	279	١.	<b>C</b>	) I	c	·	0	0	1	ı	4	'n	0	0	4	1	ı	4	4	0	, ,-	1 0	•						
619	c	· c	) C	0	•	247	;	c	, ;	C	0	0	0	0	,	0	4	0	0	0	•	1	+	0	0	· c	· c	2	778	3	9		7	٠ ٦
678	c	· c	· c	0	•	184	1	~	1	ł	_	~	0	7	ı	m	0	0	m	9	ı	1	4	0	~	~	ı LC	)			œ	. 1	v	4
677	0	0	· c	0	•	183	)	0		ŧ	0	0	0	0	1	0	7	0	0	0	ı	ı	8	0	-	0	C	•	775		9	ı	7	4
662	0	0	0	0	,	177		0		ı	٣	0	0	0	•	0		0	0	7	ı	•	٣	0	0	m	~	1	. 982		7	ı	ı	2
623	0	0	0	0	r	176		8	0	σ	7	9	0	9	0	7	7	1	0	Н	0	0	4	4	٣	7	4	ı	681		0	ı	•	4
617	0	0	0	0		157		•	0	1	1	•	1	1	0	ı	,	1	ı	1	0	0	1	•	•	1	ı		089		m	ı	•	m
616 (	0	0	0	0	S.	127		0	1	0	0	0	0	0	•	0	0	0	0	0	ı	1	0	0	0	0	0	QXG			0	ı	ı	7
009	0	0	0	0	MPO	66		4	œ	,	Ŋ	7	0	œ	m	7	0	0	7	7	0	٣	m	വ	7	~	m	ō	78		4	ı	0	9
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448	0	0	0	0		œ		e	0	m	Ŋ	7	m	9	0	4	9	ı	Ò	ស	0	0	'n	7	1	m	m		623		0	1	ı	7
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36						Ŋ		4	4	4	ω	80	0	9	0	7	Ð	0	S	œ	0	7	9	_	7	7	-		616					
333	0	0	0	0		4		4	4	∞	9	ω	0	œ	٣	Q	m	0	m	8	0	4	ιΩ	4	7	0	0		600		0	ı	0	0
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1 33	0	0	0	0		7		~	0	0	σ	0	æ	4	0	œ	Ŋ	0	0	0	0	0	4	0	0	0	0		7		2		7	1
33						Н		9	0	0	œ	0	0	ð	0	00	0	0	4	σ	0	0	7	വ	0	0	0		28					
Rate 1000 g/ha Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 1000 g/ha	Postemergence	B. signalgrass	Barnyardgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Ducksal d	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Ric	S. Flatsedge	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 1000 g/ha	Postemergence	B. signalgrass	Barnyardgrass	Bedstraw	Blackgrass

Cocklebur	0	0	0	m			0	Z.	Н	m	~	0	0	10	0	0	0						
Corn	0	0	0	0			0	-	0	0	0	7	0	7	0	0	0						
Crabgrass	ო	0	٣	<b>∞</b>			۳	œ	9	ı	7	Q	~	9	6	,	6						
Ducksalad	1	•	1	1			,	1	ı	ı	ı	ı	•		•	ı	ı						
Giant foxtail	4	4	ო	7			7	8	S	7	ß	œ	٣	9	6	6	6						
Morningglory	0	9	0	10			0	7	ı	ı	~	7	ı	7	œ	œ	80						
Nutsedge	0	0	0	t			ı	,	0	ı	0	t	ı	2	0	m	٣						
Rape	0	0	0	m			0	0	0	7	0	0	0	0	0	0	٣						
Redroot pigweed	0	0	0	m		0	Ŋ	0	4	ß	~	ស	7	٣	9	œ	9						
Rice	ı	1	1	•			ı	ı	i	ı	1	ŧ	ı	ı	ı	ı	ı						
S. Flatsedge	ı	1	•	ı			ı		ı	ı	ı	ı	•	ı	1	ı	ı						
Soybean	9	4	4	Ŧ			٣	1	7	7	ı	1	m	9	Q	9	7						
Sugarbeets	0	0	0	7			0	0	7	0	0	7	7	0	0	7	6						
Velvetleaf	~	က	0	7			7	0	m	9	ĸ	4	~	4	m	Ŋ	٣						
Wheat	m	0	0	0			-	0	0	~	0	0	0	~	σ	m	7						
Wild oats	0	0	0	1			~	-	0	ო	0	Ч	-	٣	0	m	73						
Table B									ŏ	MPO	CINID CINID												
Rate 1000 g/ha	-	2	4	ហ	9	7	80	9 12	13	66	127	176 1	177	183	184	247 2	79 2	80 30	02 36	65 4	47 4	48 5	87
Preemergence																							
B. signalgrass	œ				Ŋ						0	٣	ഗ	0	Ŋ	0	0		7		9	4	10
Bedstraw	0				0						0	9	10	7	7	0	0		0			0	m
Blackgrass	4				7						0	7	7	7	7	0	0		9		٣	4	10
Cocklebur	1				7						1	0	•	0	٣	0	0		0		0	1	0
Corn	7				ហ						0	8	0	0	~	0	0		0		0	7	4
Crabgrass	6				10						7	10	ω	0	9	٣	4		7		0	σ	10
Giant foxtail	9	0 10	0 10	10	6	9	. 01	7 8	ω	10	6	10	10	9	10	7	7	0	10	6	10	9	10
Morningglory	0				0						0	0	0	0	~	0	0		0		~	0	٣
Nutsedge	ı				0						ı	10	0	0	٠	ı	0		0		0	0	0
Rape	0				0						0	٣	0	0	0	0	0		œ		0	0	7
Redroot pigweed	7				7						10	0	0	0	~	0	0		٣		0	0	m
Soybean	0				0						0	7	0	0	0	0	0		0		ı	0	7
Sugarbeets	0				0						0	9	0	0	7	0	0		4		0	0	٣
Velv tleaf	m				4						0	ស	0	0	ო	0	0		4		0	0	4
Wheat	0				٣						7	4	0	0	0	0	0		0		0	0	7
Wild oats	~				9							Ŋ	10	0	4	0	0		9		10	Z,	10
Table B									ບ	OMPO	ON DE												

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		•																116		0	0	0	0		185		0	0	0	0		211		0
778	ı	10	10	0	7	10	10	0	10	9	10	7	7	m	œ	6		113		0	0	0	0		184		9	0	0	0		210		0
777	1	٣	10	t	0	10	10	7	-	7	0	0	m	m	σ	σ		111		0	0	0	0		183		0	0	0	0		208		0
775	1	~	10	0	4	10	10	ß	Q	7	10	7	٣	4	6	0		109		0	0	0	0		182		0	0	0	0		207		7
736	9	ı	10	~	σ	σ	œ	9	œ	7	~	m	2	٣	6	10		108		0	0	0	0		181		0	0	0	0		206		0
724	0	0	7	0	0	σ	10	0	0	0	٣	0	0	0	0	0		107		0	0	0	0		180		0	0	0	0		202		0
723	9	0	9	0	0	σ	10	0	0	7	IJ	0	0	0	0	œ		105		0	0	0	0		177		0	0	0	0		204		0
869	4	0	σ	0	0	6	10	0	•	œ	0	٣	0	0	9	10		103		0	0	0	0		166		0	0	0	0		203		0
697	6	0	10	0	0	σ	10	Ŋ	0	0	0	0	0	7	7	σ		94			0				165		7	0	0	0		202		0
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679	0	1	Ŋ	0	7	ო	œ	0	•	0	9	0	0	0	0	0	OMPO	78		0	0	0	0	OMPO	139		0	0	0	0	OMPO	197		0
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9 229	6	ı	4	0	0	6	10	0	0	m	æ	0	7	0	0	7		70 71			0				129		σ	ហ	9	0		195		0
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6 61			•				• •			9								5 3			0				22 1		0	0	0	0		191 1		0
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Rate 1000 g/ha Pre mergence	B. signalgrass	Bedstraw	Blackgrass	Cockl bur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 500 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 500 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 500 g/ha	Pre-emergence	Barnyardgrass

		0		37 238		0				59 264				0			90 291				0			15 316				0	0		40 341		o o
c		0		236 23	0	0	0	0		258 2		0	0	0	0		286 2		4	0	0	0		314 3		0	0	0	0		339 3	•	σ
c	· c	0		235	0	0	0	0		257		0	0	0	0		284		Q	0	0	0		313		0	0	0	0		338	•	σ
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~	· C	0		233	0	0	0	0		255		0	0	0	0		282		Q	0	0	4		311				0			336		0
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0	C	0		215	0	0	0	0		239		0	0	0	0		265		0	0	0	0		293		2	0	ß	0		317	•	_
Ducksalad	Rice	S. Flatsedge	Table B	Rate 500 g/ha Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 500 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 500 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 500 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 500 g/ha	Pre-emergence	RathCardanas

Rice S. Flatsedge	00	00	00	00	00	00	00	00	٥ م	00	00	00	00	00	00	00	00	00	00		0 0	7 0
Table B								ບ	ಶ	g											ı	
Rate 500 g/ha Pre-emerdence	346 350	350	351	353	354	358 3	65 3	66 3	67 3	68 3	69	70 3	71 3	72 3	73 3	74 3	75 3	76 3	78 3	79 3	80 3	181
Barnyardgrass	0	0	0	6	0	6	0	0	0	7	0	0	7	0	0	0	0	0	0	0	0	c
Ducksalad	0	0	0	0	0	7	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
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S. Flatsedge	0	0	0	7	0	∞	0	0	0	4	0	0	٣	0	0	0	0	0	0	0	0	0
Table B								පි	OMPOU	Q S												
Rate 500 g/ha	382 383	383	384	385	387	388 3	89 3	90 3	91 3	93 3	94 3	95 4	01 4	02 4	03 4	05 4	06 4	07 4	08 4	09 4	10	411
Pre-emergence																						
Barnyardgrass	0	0	0	0	0	0	0	σ	0	0	œ	0	0	თ	7	0	0	0	0	m	9	6
Ducksalad	0	0	0	0	0	0	m	m	0	0	m	0	0	0	0	0	0	0	0	0	~	7
Rice	0	0	0	0	0	0	•	4	0	0		0	0	~	0	0	0	0	0	0	Ŋ	0
S. Flatsedge	0	0	0	0	0	0	0	7	0	0	œ	0	0	7	9	0	0	0	0	7	σ	σ
Table B								ဗ	OMPOU	OND												
Rate 500 g/ha	414	437	438	439	441	443 4	44 4	45 4	46 4	47 4	48 4	49 4	51 4	52 4	53 4	54 4	55 4	56 4	157 4	158 4	59	460
Pre-emergence	-																					
nyardgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ducksalad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rice	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S. Flatsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Table B								႘	OMPOU	QNS												
Rate 500 g/ha	461	462	463	465	466 '	467 4	468 4	69 4	70 4	71 4	72 4	73 4	74 4	76 4	77 4	78	479 4	80 4	82	485 4	486	487
Pre- mergence															,							
Barnyardgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ducksalad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rice	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S. Flatsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Table B					•			ຽ	OMPOU	SE SE												
Rate 500 g/ha Pre-emerdence	488	489	490	492	493	494	495	496 4	98	499	509	521	528	529	531 5	32 5	38	539	546	250	552	256
Barnyarderses	c	<b>C</b>	c	c	c	c	c	c	c	c	c	<	_	ç	c	o	<	c	•	•	•	,
iiyaragrass Ibaslad	•	•	•	•	•	9 0	•	, (	<b>o</b> c	•	> <	•	•	١ ٥	,	n c	> <	<b>,</b>	9 0	<b>&gt;</b> (	> 0	٠,
Ducksalad	<b>&gt;</b> (	<b>O</b>	> 0	<b>&gt;</b> (	> (	> <	<b>-</b>	<b>&gt;</b> (	<b>&gt;</b> (	<b>&gt;</b> (	> (	<b>o</b>	>	>	<b>&gt;</b>	י ע	>	>	>	>	>	>
Rice	0	>	>	<b>¬</b>	9	3	<b>-</b>	0	0	0	0	0	ı	•	0	œ	ı	0	;	0	1	0

0	009	0	0	0	0		623		0	0	0	0		649		0	0	0	0		619		0	0	0	0							
0	599	0	0	0	0		622		0	0	0	0		647		0	0	0	0		829		0	0	0	0		793		0	ω	0	ω
0	298	0	0	0	0		621		0	0	0	0		646		0	0	0	0		<b>677</b>		0	0	0	0		765		0	0	0	0
0	965	0	0	0	0		620		0	0	0	0		645		0	0	0	0		9/9		0	0	0	0		758		0	0	0	0
0	595	0	0	0	0		619		0	0	0	0		643		0	0	0	0		675		0	0	0	0		741		0	0	0	œ
0	594	0	0	0	0		618		0	0	0	0		642		0	0	0	0		674		0	0	0	0		740		0	0	0	0
0	593	0	0	0	0		617		0	0	0	0		641		0	0	0	0		671		0	0	0	0		724		0	0	0	0
0	592	0	0	0	0		919		0	0	0	0		640		0	0	0	0		899		0	0	0	0		721		0	0	0	0
0	591	0	0	0	0		615		0	0	0	0		639		0	0	0	0		<b>299</b>		0	0	0	0		720		0	0	0	0
0	290	0	0	0	0		613		0	0	0	0		638		0	0	0	0		999		ស	0	0	0		715		0	0	0	
0	589	0	0	0	0		612		0	0	0	0		637		0	0	1	0		999		9	0	0	0		706		0	<b>О</b>	0	0
0	588	٥	0	0	0		611		S	Н	~	0		989		7	0	ı	0		664		0	0	0	0		705		7	0	7	0
o QND	587	0	0	0	0	ON D	610		œ	7	œ	œ	ONS	634		0	0	0	0	CINIC	663		0	0	0	0	OUNDO	702		0	0	0	0
0 OMPO	286	0	0	0	0	OMPC	609		0	0	0	0	OMPO	633		0	0	0	0	OMP	662		0	0	0	0	COMP	701		0	m	1	0
ິດ	280	0	0	0	0	U	809		0	0	0	0		632		0	0	0	0	Ŭ	661		0	0	0	0		669		œ	9	4	80
0	577	0	0	0	0		607		0	0	0	0		631		7	0	0	0		099		0	0	0	0		697		0	0	0	0
0	570	0	0	0	0		909		0	0	0	0		630		0	0	0	0		629		7	0	0	8		969		0	0	0	0
0	268	9	7	0	4		605		0	0	0	0		629		0	0	0	0		658		0	0	0	0		695		0	0	0	0
0	267	0	0	0	0		604		0	0	0	0		628		0	0	0	0		657		0	0	0	0		694			0		
0	561	0	0	0	0		603			0				627				0			655		0	0	0	0		692		σ	100	<b>∞</b>	100
0	260	0	0	0	0		602		0	0	0	0		625		0	0	0	0		650 651		0	0	0	0		680 681		0	0	0	0
0	558 560	9	0	ı	0		601		0	0	0	0		624		0	0	0	0		650		0	0	0	0		680		0	0	0	0
S. Flatsedge Table B	Rate 500 g/ha	Barnyarddrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 500 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 500 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 500 g/ha	Pre-em rgence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 500 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge

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Table B	Rate 500 g/ha	Postemergence	b. Styllatylass	Barnyardgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Ducksalad	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Rice	S. Flatsedge	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 500 g/ha	Postemergence	B. signalgrass	Barnyardgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Ducksalad	Giant foxtail	Morningglory

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Wheat Wild oats Table B	Rate 500 g/ha Postemergence	B. signalgrass	Barnyardgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Ducksalad	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Rice	S. Flatsedge	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 500 g/ha	Postemergence	B. signalgrass	Barnyardgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Ducksalad

Rate 500 g/ha	636	638	639	640	641 6	642 6	43 64	Ŋ	646 6	47	648 6	649 6	650 6	652 6	653 6	54	655 65	57 65	8 65	ი	9 099	19
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Crabgrass	σ	6	<b>&amp;</b>	9	9	S	9	m	-	0	7		0	· •	۰ ۵	۰ د	σ	4 0	۱ د	<b>ο</b> α	4 6	<b>&gt;</b> 0
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S. Flatsedge	ı	1	1	1	ı	. 1	ı	ı	ı	ı	1		ı	ı	ı						ı	ı
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Velvetleaf	m	4	٣	m	٣	m	m	0	. 0	ي .	0		۰ د	1 0	<b>,</b> c	o c	<b>1</b> C	า <		# U	، د	<b>&gt;</b> c
Wheat	7	e	4	0	0	0	0	0	0	و	0	0	· C	· ~	· c	· c	· c	יט יי		ט כ	n c	ہ د
Wild oats	0	٣	Н	0	-	н	-	0	0	· m	0	0	· c		· c	· c	<b>,</b> -	י ר		י ר	<b>,</b>	<b>1</b>
Table B								ទ	MPOU	£	•	,	<b>,</b>	•	•	>	4	4		<b>1</b>	>	n
Rate 500 g/ha	662	663	664	665 (	9 999	9 /9	68 67	0	671 6	672 6	674 6	675 6	9 9 2 9	9 229	678 6	79	680 65	681 70	708 709		7107	-
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B. signalgrass	7	0	7	Ŋ	7	7	വ	œ	ω	4	ω	œ	<b>∞</b>	0	~	c	c	c	c	_	r	a
Barnyardgrass	1	1	•	,	1	ı	•	ı	ı	ı	,	ı			1	, ,	) 1	) I	, ,	<b>,</b> ,	٠ ،	ו כ
Bedstraw	ı	1	•	ı	ı		ŧ	œ	0	9	ı	ŀ	ı	•	0	c	c	ı	ı	ı	α	
Blackgrass	ო	7	თ	ω	œ		9	Ŋ	œ	9	6	6	00	-	, <sub>(1</sub>	· C	, –	c	c	_	י כ	,
Cocklebur	0	7	9	7	7	S	~	m		7	ず	m	7	-	· ~	· c	1 0	· c	, c	~ د	, c	٦ -
Corn	0	0	0	m	0		m	9	2	0	7	9	0	0	0	· c			, c	) C	۰ د	٠,
Crabgrass	7	4	Q	σ	6		10	8	0	0	0	0	6	7	v		, [~	· c	<b>•</b>	α	1 0	۲ C
Ducksalad	ı	1	1	ı	ı		ı	ı	ı	ı	,	•		1	. 1	ı	) [	) (	, ,	, ,	, ,	2
Giant foxtail	S	4	9	6	6	6	0	0	6	6	6	6	6	4	Y	4	נר	_	u	σ	ا م	1 0
Morningglory	7	4	10	ω	7	9	ず	4	9	,	,	4	~	7	α	· ~	, -	, [	יו נ	٠ ٧	۰ α	۰ د
Nutsedge	Ŋ	0	0	0	0	0	0	ស	0	2	ı	· œ	0	0	, 0			- 1	) c	י נ	ۍ د	# 14

4	10		ı	v	) (r)	· v	. r	1 4	<b>H</b>	80	)	7	٠ ،	α	ی د	۰ 4	٠,٠٠	. 0	. 1	6	. 00	0	~	, α		ı	u	, œ	, ,	۷.		,		
7	n 01		ı	ſ	9	· v	y v	v	•	757 7		1		ı	4	۰ ۵	ic	9	, ,	7	0	0	0	7	. 1	ı	4	~ ا	4	۰ د	· c	•		
0	- α	ı	ı	4	0	9	0	0	>	756	) .	8	1	ı	~	0	0	M		0	10	0	(m)	m		ı	c	0	0	· c	· c	•		
0	Ŋ	i	ı	4	0	r.	0	0	•	754	ł	œ	1	ı	ď	0	'n	σ	1	œ	10	0	0	1	ı	i	~	ım	0	'n	0	,	792	r
0	9	ı	1	٦	0	0	0	0	•	753	1	7	1	9	4	4	· <del>- 1</del>	σ	1	σ	10	က	0	7	ŀ	ı	7	ı ru	~	ľ	~	1	791	•
0	0	1	1	~	0	0	0	0	•	752		9	· t	7	9	m	0	10	1	σ	Q	0	4	σ	ı	1	9	m	7	ហ	0	)	790	r
0	0	ı	ł	⊣	0	0	0	0	1	751		7	ı	7	7	~	7	σ	1	6	σ	10	S	O	i	ı	7	m	m	~	S	)	780	u
0	7	1	r	7	0	~	0	0		750		9	1	10	00	m	Ŋ	•	ı	∞	10	ı	7	7	ı	1	7	9	9	7	0		778	¥
0	m	ı	ı	7	Н	m	0	0		749		m	ı	ŀ	9	4	~	σ	•	9	ß	0	9	7	1	ı	2	7	٣	0	2		777	~
0	2	ı	ı	٣	7	ო	Ŋ	m		748		7	1	Q	00	•	0	9	1	Q	7	0	7	<b>∞</b>	1	١	Ŋ	7	4	1	0		775	٣
æ	œ	ł	1	S	7	ထ	7	7		747		9	ı	1	α	ħ	ß	0	1	σ	10	0	Q	œ	ı	1	œ	m	7	4	7		774	<b>C</b>
2	7	1	1	7	Ŋ	œ	7	m		746		œ	1	6	Φ	4	Ŋ	10	1	9	10	4	7	σ	1	ı	9	4	7	9	7		773	_
m	œ	1	1	2	m	,	0	0		745		9	1	9	σ	4	0	σ		9	Φ	0	7	9	1	ı	Ŋ	4	7	m	4	CIND	772	c
7	Ŋ	1	1	4	٣	٣	9	0	OMPC	744		9	1	١	S	0	Ŋ	6	1	<b>œ</b>	4	9	œ	œ	1	1	S	S	7	7	7	OMPO	167	7
4	6	ı	1	Ŋ	7	4	4	m		743		7	ı	<b>∞</b>	2	٣	0	6	1	œ	10	9	m	œ	i	ı	4	4	4	9	m		992	1
4	7	ì	1	9	9	7	0	0		741		1	1	9	0	0	0	ſ	1	4	m	0	0	7	1	1	ന	4	-	ო	ł		765	α
9	7	ı	i	•	٣	<b>∞</b>	Ŋ	9		740		~	1	0	7	m	0	0	1	o,	7	0	0	œ	ı	1	9	7	7	4	0		764	٠,
4	9	1	ı	1	ぜ	9	ᠬ	ო		739		7	í	9	9	m	0	0	1	σ	œ	m	7	S.	•	•	Ŋ	4	٣	9	0		763	'n
4	7	ı	1	•	4	7	4	5		736		0	1	•	٣	m	4	4	1	7	2	7	0	0	•	t	m	0	m	7	m		762	m
ო	9	ı	ı	ı	0	9	7	7		714		9	1	1	7	٣	0	σ	ı	<b>∞</b>	7	τU	თ	6	1	ı	m	7	m	9	ഗ		761	m
0	0	ı	•	ı	4	~	0	0		m		7	1	1	7	9	ស	σ	ŀ	0	10	m	9	0	ı	1	Ŋ	ហ	7	N	S		760	ß
										7																							-	
0	0	ı	ı	7	0	0	0	~		712 71		œ	1	ω	9	ო	0	O	ı	σ	10	0	4	ω	ı	ı	2	9	9	Ŋ	m		759	7

Barnyardgrass	ı	•	,		,	,	ı	ı	•		,	ı	ı	1	•		,	ı	1	t	ı	•				
Bedstraw	ı	•	m		_	4	ς,	ı	(*1		თ	0	0	0	-	_	m	4	1	ഹ	m					
Blackgrass	œ	m	0		_	ស	œ	7	٠		6	0	0	0	-	_	4	7	7	2	9		7			
Cocklebur	7	Н	0		C	٣	Ŋ	m	w		7	0	0	0	Ö	_	0	0	0	0	Ŋ		m			
Corn	0	Н	0		C3	7	7	٣	7	_	7	0	0	0	٥	_	0	0	9	7	1		~			
Crabgrass	∞	1	0		œ	σ	0	ტ	٠,	_	6	0	0	0	O1	_	თ	σ	7	σ	σ		σ.			
Ducksalad	ı	1	'			ı	1	1	•			ı	1	ł	'		:	ı	1	1	1					
Giant foxtail	œ	7	m		ι	σ	∞	Φ	Ο,	_	S	0	0	0	Οì	_	6	6	σ	æ	9		o.			
Morningglory	4	m	'		~	7	ស	ω	.,		7	7	0	0	v		œ	9	80	10	0	•	0			
Nutsedge	0	0	0		~	9	٣	٣	٠.		7	0	0	0	٠		٣	ı	4	7	0		0			
Rape	0	2	0		0	٣	7	7	Ŭ	_	ı	0	0	0	_	_	0	٣	0	٣	9		7			
Redroot pigweed	4	m	9		9	œ	7	œ	<b>00</b>	<b>~</b>	6	0	0	0	ო		4	4	0	ស	80		1			
Rice	1	•	,		ı	ı	ı	ı	·			ı	1	1	•		ı	ı	i	1	'					
S. Flatsedge	i	١			ı	ı	ı	•	·		,	ı	ı	1	•		ı	ı	i	ı	'		,			
Soybean	ო	വ			4	Ŋ	4	S	•		7	0	0	0	•		9	4	4	4	ιΩ		7			
Sugarbeets	0	0			yg.	4	7	4	•	^1	7	0	0	0	٠	_	Ŋ	7	0	7	LO.		~			
Velvetleaf	9	m		_	е.	~	4	7		S.	۳	0	0	0	•	٥,	r.	٣	Þ	7	9		7			
Wheat	0	0		_	0	m	1	ល	•	_	7	0	0	0	_	_	m	7	7	ß	0		m			
Wild oats	m	4		_	~	-	m	7	•	ΟI	٣	0	0	0	Ŭ	_	~	~	(7	m	0		9			
Table B										Ŝ	POU	Ð														
Rate 500 g/ha	-	7	3	2	9	7	œ	9	10	11 1	12 1	13 17	4 15	16	17	18	19	20 2	21 2	4 2	5 34	35	36	37	38	39
Preemergence																										
B. signalgrass	9	0	0					0	8	0						æ	~	0						0	80	0
Bedstraw	0							0	0	0						m	0	9						0	0	0
Blackgrass	7							0	6	0						7	m	വ						0	10	0
Cocklebur	0							0	0	0						0	0	0						ı	0	0
Corn	2							0	7	0						0	0	0						0	0	0
Crabgrass	œ							m	~	œ						10	10	7						Ŋ	10	9
Giant foxtail	σ							m	Q	ന						0	Ŋ	6						ო	10	10
Morningglory	0							0	0	0						7	0	0						0	0	0
Nutsedge	1							0	0	0						0	0	0						0	0	0
Rape	0							0	0	0						8	ო	0						0	0	0
Redroot pigweed	7							0	0	0						6	1	6						0	10	9
Soybean	0							0	0	0						0	0	0						0	7	0
Sugarbeets	0	0	0	3	0	0	0	0	0	0	0	0	9 0	0	9	4	7	7	8	9	2 4	0	-	0	9	0
Velvetleaf	0							0	0	0						0	0	0						0	0	0

Wheat	0	0	0	0	0	0	0	0	0	0				0	0		_	0			0	0	8	0	0	0	0	0
Wild oats	0	0	0	7	9	٣	0	~	0	0	0	0	~			<u>س</u>			0	0	7	7	7	9	7	0	œ	0
Table B											ō	0	Ð															
ha	40	41	42	£3	44	45	46	47 4	48 4	49	51 5	7	53 5	4 5	5 5	9.	7 58	59	09	19	62	63	64	<b>6</b> 2	99	29	89	69
Preemergence																												
B. signalgrass	7	7	0	0	0	6	m			0		9	٣											0	0	7	œ	0
Bedstraw	0	0	0	~	0	0	0			0														٣	0	0	Þ	0
Blackgrass	9	4	0	Н	н	0	7			0														0	0	7	4	0
Cocklebur	0	0	0	0	0	0	0			0														0	0	0	0	0
Corn	0	0	0	0	0	Н	0			0														0	0	0	0	0
Crabgrass	10	10	0	0	7	9	10	Ŋ	7	6	7	10 1	10	8	0	_	0	0 5		Φ.	0	~	m	σ	∞	7	10	4
Giant foxtail	10	10	0	0	Н	10	10			2										П	٠.			ტ	9	œ	10	4
Morningglory	0	0	0	0	0	0	0			0														0	0	0	0	0
Nutsedge	0	0	0	0	0	0	0			0														ო	9	0	10	0
Rape	0	0	0	0	0	0	0			0														m	0	0	9	0
Redroot pigweed	9	_	0	4	0	œ	6			0														m	0	10	10	0
Soybean	0	0	0	0	0	m	0			0														0	0	0	0	0
Sugarbeets	9	0	0	0	0	œ	9			0														0	0	m	0	0
Velvetleaf	0	0	0	0	0	m	7			0														0	0	0	0	0
Wheat	0	0	0	0	0	0	0			0														0	0	0	0	0
Wild oats	Ŋ	4	0	0	0	0	0			0														0	7	~	7	0
Table B											ĝ	0	g															
Rate 500 g/ha	70	71	72	73	74	75	91		. 87	19		81 8	87 8	ω ω	رح 80	6 87	œ	88	96	91	92	93	94	95	96	16	66	101
Preemergence																												
B. signalgrass	0	0	0	0	0	œ	œ	0	6	Ŋ	4	œ	0							-			Ŋ		~	4	٣	0
Bedstraw	0	0	0	0	0	0	0	0	0	0	0	0	0									m	0		7	ı	0	0
Blackgrass	0	0	0	0	0	δ	ω	0	9	ø	ဖ	9	0							Н		Н	σ		ω	m	4	0
Cocklebur	0	0	0	0	0	0	0	0	0	0	0	0	0												0	0	0	ı
Corn	0	0	0	0	0	0	4	0	0	0	0	4	0												0	0	0	0
Crabgrass	0	0	4	9	8	10	ω	m	10	10	10	œ	0				П			7		~	-		σ	4	10	0
Giant foxtail	0	0	~	10	10	10	σ	Ŋ	9	σ	σ	œ	0				Н		٠.	~~		-	_		œ	œ	10	0
Morningglory	0	0	0	0	0	7	0	0	0	0	0	0	0												0	0	0	0
Nutsedge.	0	0	0	0	0	0	0	9	0	0	0	0	0												0	0	9	0
Rape	0	0	0	0	Ŋ	10	0	0	Ŋ	0	Ŋ	0	0						_	-		_			٣	9	m	0
Redroot pigweed	0	0	0	0	٣	10	œ	0	9	10	7	0	0	0	0	8	10 1	0	9 0	5 10	10	10	4	6	œ	10	10	0
Soybean	0	0	0	0	0	0	0	0	0	0	0	0	0						_						0	7	0	0

Sugarbeets	0					0		Ŋ	7				0	٣	6				6	σ	~			7	0	
Velvetleaf						0		^	m				0	ហ	0				œ	10	ო			m	0	
Wheat		0	0	0	m -	7	0	m	~		2 0	0	0	0	0		0	9	7	æ	0		0	7	0	
Wild oats	0					4		9	4	2	8		0	ഗ	٣	S.			10	10	9	īU	7 5	Ŋ	0	
Table B										ð	POUN	2														
Rate 500 g/ha	102	103	104	Н	05 1	106	107	108	109	9 11	0 111	1 11	7	113	114	115	116	1117	11	8 11	6	120	121	122	123	
Preemergence																										
B. signalgrass	0	7				7	10						2	10	10	10	ä	1(	1		0	æ	9	ī	~	
Bedstraw	0	0				4	10						0	80	0	0	Ů,	_	_		œ	0	ហ	0	0	
Blackgrass	4	ល		7	10	~	10	10	10		7	Ŋ	Ŋ	10	10	9	10	) 1(	0	7	6	œ	Q	m	7	
Cocklebur	0	0				0	0						0	m	1	0					1	0	0	1	0	
Corn	0	0				0	Q						7	10	9	0	•				7	0	0	0	0	
Crabgrass	4	1				œ	10						10	10	σ	6	Ä	10			10	σ	9	œ	7	
Giant foxtail	70	9				10	10						10	10	10	10	ï				10	10	10	σ	10	
Morningglory	0	0				0	7						~	œ	~	0	_				Ŋ	0	0	0	0	
Nutsedge	0	0				0	9						0	0	0	0	Ū				9	0	0	0	0	
Rape	0	0				7	10						Ŋ	10	10	Ŋ	Ä				σ	٣	0	ო	0	
Redroot pigweed	0	7				4	10						6	10	10	∞	Ä				10	ω	œ	œ	თ	
Soybean	0	0		•		0	80						4	σ,	m	0	•				0	0	0	0	0	
Sugarbeets	0	4				7	10						0	10	<u>ر</u>	S	Ä				œ	7	7	4	7	
Velvetleaf	0	m				0	10						ស	œ	9	7	Ä				9	m	0	m	9	
Wheat	0	7				0	œ						0	œ	80	0					Ŋ	9	٣	0	7	
Wild oats	0	9				0	10						9	10	10	4	Ä	0	0		6	œ	9	ស	9	
Table B										Ö	8	Ê														
Rate 500 g/ha	124	125	12	9	127 1	128	129	130	13	1 13	~	133 1	134	135	136	137	13	8 13	9 14	10	41	142	143	144	145	
Preemergence																										
B. signalgrass	0	0		0	0	0	7					7	œ	₽	IJ	9				7	0	0	ß	7	Ω	
Bedstraw	0	0		0	0	0	0					0	ო	Ŧ	0	2				0	0	0	0	4	Þ	
Blackgrass	0	0		0	0	7	4					Ŋ	7	4	9	10				4	0	0	9	7	7	
Cocklebur	0	0	_	0	0	0	•					7	0	0	ı	0				0	0	0	0	0	0	
Corn	0	0	_	0	0	0	7					0	0	0	0	4				0	0	0	0	4	0	
Crabgrass	0	0		0	0	0	თ					Ŋ	9	7	œ	10				0.	7	4	10	6	œ	
Giant foxtail	0	0	_	0	4	ω	σ					01	10	•	10	10				0	9	9	10	œ	œ	
Morningglory	0	0	_	0	0	0	0					0	Н	0	0	-				0	0	0	0	0	Н	
Nutsedge	0	0	_	0	0	0	0	<u>س</u>	0		6	0	0	0	1	'	7		0	0	0	0	0	0	0	
Rape	0	0	_	0	0	0	0					~	9	0	0	2	7			0	0	0	9	~	0	

Redroot niqueed	<b>C</b>	c	c	r	<	r	,	,	r	•	ć	•	,		,	,						
Daniel Control	•	•	•	٠ (	•	- ,	7	<b>7</b>	•	า	7	7	) T	7	0	10	0	0	0	9	ഹ	4
soybean	>	>	>	>	0	~	Ť	œ	4	0	0	0	0	ហ	œ	~	~	0	0	***	C	C
Sugarbeets	0	0	0	0	0	ហ	10	10	œ	ß	7	0	9	10	10	9	1	c	<b>C</b>	ισ	<b>v</b>	~ د
Velvetleaf	0	0	0	0	0	9	10	10	10	~	7	0	4	10	10	7	· c	· c	· c	۰ ح	· c	ט ני
Wheat	0	0	0	0	0	m	4	10	4	0	0	0	0	'n	6	₹	· c	· c	· c	· c	· c	n c
Wild oats	0	0	0	0	0	9	10	10	0	4	~	0	. س	0	10	σ	, -	• •	· c	<b>u</b>	o c	۰ د
Table B								ິ	OMPO	, E	ı	•	)	1	4	`	-	>	>	n	7	า
Rate 500 g/ha	146	147	148	149	150	151	152	153	154	157	158	159	160	161	162	. 691	164	,	166	167	9,4	691
Preemergence											1	1	•	1	}	)		,	5	2	0	601
B. signalgrass	10	10	7	0	0	7	9	0	4	0	0	0	0	ស	7	7	0	9	4	α	Ľ	7
Bedstraw	7	Φ	7	0	0	0	0	0	0	0	0	0	0	0	0	4	0	· 4	. 0	ı,	n C	, 0
Blackgrass	10	10	თ	0	0	10	m	0	ហ	ហ	က	0	0	σ	m	10	0	ω	Ŋ	) (r)	· ^	10
Cocklebur	0	Ŋ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	2
Corn	σ	0	0	0	0	0	0	0	0	0	7	0	0	0	0	2	0	0	0	· c	· c	ى د
Crabgrass	10		9	0	9	10	m	0	0	9	7	0	0	0	10	0	4	- α	7	10		٦ ٥
Giant foxtail	10	10	10	0	J.	10	ß	0	ω	10	œ	0	0	10	6	10	7	6	7	1	. 0	-
Morningglory	4	7	-	0	0	0	0	0	0	m	7	0	0	0	0	0	0	m	0	0	2	2
Nutsedge	m	4	0	0	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	יא
Rape	10	10	0	0	0	10	0	0	0	0	0	0	0	ო	6	œ	0	10	0	· LC	· c	10
Redroot pigweed	10	10	10	0	6	10	0	0	σ	0	~	0	0	10	7	0	0	-	0	ο α	0	α
Soybean	4	σ	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	. г.
	10	7	10	0	0	10	0	0	9	0	0	0	0	0	0	9	0	4	0	ū	7	α
Velvetl af	œ	7	œ	0	m	10	0	0	0	0	0	0	0	0	0	ស	0	4	9	m	9	ο α
Wheat	œ	œ	9	0	0	ហ	0	0	0	0	0	0	0	7	0	4	0	7	0	· C	· c	> ₹
Wild oats	10	10	ω	0	7	10	0	0	2	0	~	0	0	9	S	10	0	9	~	عا د	, ~	י נ
Table B								ŏ	MPO	Ę				•	•		•	•	3	•	י	2
Rate 500 g/ha	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	187 1	188 1	189	190	191	192
Preemergence																			;	)	!	١.
B. signalgrass	10	Ŋ	<b>∞</b>	4	4	0	0	0	9	σ	0	0	0	4	œ	0	0	7	y	c	~	¥
Bedstraw	6	0	ഹ	0	~	σ	0	10	0	0	0	ı	0	7	7	0	0	· c	· c	4	, c	· c
Blackgrass	10	~	m	9	7	0	m	9	m	~	0	0	0	0	7	c	C	· c		۰,	ט ע	7
Cocklebur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~	1	0		. c	· C	) C	٠ .
Corn	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	· c	· c	4
Crabgrass	10	10	10	9	10	œ	10	ი	σ	9	0	0	0	m	9	6	0	0	· ~	0	ο α	0
Giant foxtail	10	10	10	10	10	œ	10	10	0	10	0	0	0	ო	10	თ	0	7	9	0	10	10
Morningglory	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	m

Nutseage 10 6 8 5 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		•	•	•	•		,	,	,	,	,												
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9 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	t pigweed	10	9	œ	S	6	0	0	0	10	10	0	0	0	0	-	0	0	0	0	0	9	σ
10	ជ	σ	0	0	ო	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~
10 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	eets	10	0	ß	9	9	0	7	0	0	0	0	0	0	0	0	0	0	9	0	0	0	00
193 194 195 196 197 198 199 201 202 203 204 205 206 207 208 210 211 212 214 215 30    193 194 195 196 197 198 199 201 202 203 204 205 206 207 208 121 212 214 215 31    194 195 196 197 198 199 201 202 203 204 205 206 207 208 121 212 214 215 31    195 194 195 196 197 198 199 201 202 203 204 205 206 207 208 121 212 214 215 31    196 1	leaf	10	0	٣	0	0	0	7	0	0	S	0	0	0	0	7	0	0	~	0	0	0	9
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193   194   195   196   197   198   199   201   202   203   204   205   206   207   208   210   211   212   214   215   214   215   214   215   214   215   214   215   214   215   214   215   214   215   214   215   214   215   214   215   214   215   214   215   214   215   214   215   214   215   214   215   214   215   215   214   215   215   214   215	ats	10	ស	9	m	0	0	2	7	ო	٣	0	0	0	0	٣	0	0	0	m	0	_	7
193 194 195 196 197 198 199 201 202 203 204 205 206 207 208 210 211 212 214 215 31    1 0 1 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8								႘	MPOU	B										,		
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0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	rass	0	œ	9	0	0	0	10	7	7	0	Ŋ	0	0	7	٣	7	6	6	٣	9	7	10
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	spar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 - 9 0 0 3 0 10 10 9 9 0 0 8 8 8 4 6 8 3 5 4 4 6 6 9 10 0 10 10 10 10 10 10 10 10 10 10 10 1		0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7	0	9
6 9 10 0 3 3 1 10 10 10 10 10 10 10 10 10 10 10 10 1	ass	7	•	თ	0	ო	0	10	σ	6	0	œ	œ	œ	4	9	8	٣	ß	4	4	œ	7
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	foxtail	9	σ	10	0	ო	6	10	10	10	0	10	٣	6	10	10	2	œ	10	9	ß	σ	10
0 0 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	igglory	0	0	0	0	0	0	0	0	H	0	0	0	0	0	0	0	0	0	0	0	0	0
1 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	lge	0	0	1	0	0	0	10	ı	t	0	0	ı	0	0	0	0	ı	0	ı	0	0	0
1 0 10 0 0 0 0 0 10 0 3 0 0 0 0 0 0 3 0 0 0 3 0 0 0 0		0	7	0	0	0	0	0	0	0	0	m	0	0	7	0	٣	4	ထ	0	7	0	7
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	t pigweed	0	10	0	0	0	0	10	0	m	0	0	0	٣	œ	7	œ	7	10	თ	9	œ	10
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	9
0 3 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	eets	0	က	7	0	0	0	9	0	Н	0	0	0	0	0	0	m	œ	œ	0	7	0	7
0 2 0 0 0 0 0 0 0 2 2 0 0 0 0 0 2 2 0 0 0 0 0 0 3 2 5 7 0 0 0 0 0 0 2 2 0 0 0 0 0 0 0 0 0 0 0	l af	0	~	0	0	0	0	0	0	ч	0	0	0	0	ഹ	m	0	0	വ	0	0	0	7
OMPOUND  219 220 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239  10 10 10 0 5 5 5 10 10 10 0 0 0 0 0 0 0		0	~	0	0	0	0	0	7	7	0	~	0	0	0	0	0	Ŋ	7	0	0	0	٣
COMPOUND  219 220 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239  9 8 0 4 4 7 10 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ats	0	œ	4	0	0	0	_	ß	ഹ	0	9	0	0	0	က	7	Ŋ	7	0	7	0	σ
219       220       222       223       234       235       234       235       234       235       235       234       235       237       238       239       239       231       232       234       235       237       238       239       239       239       237       238       239       2	В								ຽ	MPOL	£												
9 8 0 4 4 7 10 2 0 0 0 0 5 4 0 0 3 0 0 0 9 10 10 10 10 10 10 10 10 10 10 10 10 10	500 g/ha		7	222	~	24	25	56	27	28		0	31	32	33	34	S	9	37	80	239	240	241
9 8 0 4 4 7 10 2 0 0 0 5 4 0 0 3 0 0 0 1 10 10 10 10 10 10 10 10 10 10 1	srgence																						
9 10 0 3 0 2 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0	nalgrass	σ	ω	0	4	♥	7	10	7	0	0	0	0	Ŋ	7	0	0	m	0	0	ιO	m	7
10 10 0 5 5 10 10 10 0 0 2 0 8 9 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Caw	δ	10	0	m	0	~	0	m	0	0	0	0	0	0	0	0	0	0	m	0	0	10
0 5 - 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	grass	10	10	0	Ŋ	ഹ	10	10	10	0	0	~	0	œ	σ	0	0	വ	0	0	4	~	10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	spar	0	ស	i	0	0	~	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
10 10 9 9 10 10 10 10 2 0 9 7 10 10 0 0 5 3 10 1		7	7	0	0	0	9	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S
	rass	10	10	Q	თ	10	10	10	10	7	0	6	7	10	10	0	0	ß	m	10	10	Q	10

Giant foxtail	10	10	σ	6	10	10	10	10	9	0	σ	œ	δ	10	0	0	10		10	10	10	10
Morningglory	Н	9	0	٦	0	œ	œ	0	0	0	7	9	0	7	0	0	0	~	m	0	0	2
Nutsedge	ı	•	1	•	1	10	ı	ı	0	0	0	0	,	ı	0	ı	ı		•	0	ı	10
Rape	10	œ	0	0	0	9	10	10	0	0	0	0	0	m	0	0	0		10	0	0	6
Redroot pigweed	10	10	4	7	4	10	0	10	0	0	0	0	~	œ	0	0	0		6	0	0	10
Soybean	0	٣	0	0	0	9	0	7	0	0	0	0	0	0	0	0	0		0	0	0	4
Sugarbeets	œ	œ	0	0	0	9	9	œ	0	0	0	0	4	<b>œ</b>	0	0	0		9	0	0	9
Velvetleaf	10	œ	٣	0	0	7	7	7	0	0	0	0	0	7	0	0	0		۳	2	7	7
Wheat	0	œ	0	0	0	80	œ	0	0	0	0	0	0	0	0	0	0		7	~	0	<sub>2</sub>
Wild oats	σ	∞	ત	4	7	10	10	٣	0	0	0	0	œ	9	0	0	7		m	m	Ç	œ
Table B								ខ	MPOU	g												
Rate 500 g/ha	242	243	245	246	247	248	249	251 2	53 2	54 2	55 2	57 2	58 2	59 2	60 2	61 2	62 2	63 2	65 2	66 2	67 2	89
Preemergence																						
B. signalgrass	10	10	10	വ	0	0	0	σ	0		6	٣	œ	6	٣	3	0	0	4	7	Q	0
Bedstraw	10	ტ	10	~	0	0	0	10	0		0	0	10	10	2	ŧ	0	0	0	6	7	0
Blackgrass	10	10	10	10	0	0	0	10	0		10	0	œ	10	m	Þ	4	0	ı	6	œ	0
Cocklebur	m	ស	9	0	0	0	0	0	0		0	0	0	0	0	0	0	ı	ı	0	0	0
Corn	6	6	ω	m	0	0	0	S	0		œ	0	Ŋ	m	0	0	0	0	0	0	٣	0
Crabgrass	10		10	10	7	0	7	10	0		0	Ŋ	10	7	6	Ŋ	٣	~	9	9	œ	0
Giant foxtail	10	10	10	10	٣	0	ហ	10	0		10	6	10	10	10	6	7	σ	10	œ	9	0
Morningglory	10	10	9	0	0	0	0	4	0		0	4	0	0	0	0	0	0	0	Н	0	0
Nutsedge	10	•	ı	0	ı	0	0	ı	0		ı	0	1	0	ı	0	0	0	0	0	0	ı
Rape	10	10	10	10	0	0	0	10	0		Ŋ	0	7	6	0	0	0	0	0	2	0	0
Redroot pigweed	10	10	10	m	0	0	0	10	0	0	10	4	10	œ	4	0	0	0	0	6	7	0
Soybean	7	σ	ω	7	0	0	0	0	0		0	0	m	0	0	0	0	0	0	0	0	0
Sugarbeets	œ	10	10	œ	0	0	0	10	0		7	0	7	0	0	0	0	0	0	7	ស	0
Velvetleaf	10	10	10	ហ	0	0	0	7	0		7	0	7	Ŋ	0	0	0	ო	0	4	٣	0
Wheat	10	6	6	ស	0	0	0	∞	0		∞	잭	7	0	0	0	0	0	Н	9	0	0
Wild oats	10	თ	10	œ	0	0	0	6	0		10	7	9	4	0	0	0	0	S	7	~	0
Table B								ၓ	$\boldsymbol{\epsilon}$	ON.												
Rate 500 g/ha	269	270	271	272	273	274	276	277 2	278 2	279 2	80 2	81 2	82 2	83	284 2	86 2	92 2	93	294 2	16	298	299
Preemergence																						
B. signalgrass	-	0	10	0	m	0	10	10	0	0	0	0	7	10	œ	œ	0	σ	0	0	0	10
Bedstraw	0	0	10	m	1	0	0	7	0	0	0	10	7	σ	œ	0	0	0	0	0	ı	10
Blackgrass	7	0	10	0	0	0	10	10	0	0	0	4	œ	10	10	7	0	6	10	0	0	10
Cocklebur	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	ó	0

Corn	0	0	m	0	0	0	0	ო	0	0			0	0	0	0	0		7	0	0	œ	
Crabgrass	9	0	ω	7	σ	Ŋ	7	10	4	-			œ	7	6	10	0		10	7	0	6	
Giant foxtail	i	0	10	ဖ	σ	Q	10	10	æ	7			10	10	10	10	0		10	7	ı	10	
Morningglory	0	0	7	0	0	0	0	0	0	0			0	0	~	0	0		0	0	0	7	
Nutsedge	1	0	0	0	0	0	ı	0	ı	ı			1	0	0	ı	0		0	0	0	f	
Rape	0	0	10	0	0	0	10	7	0	0			7	æ	7	7	0		m	0	0	10	
Redroot pigweed	Ŧ	0	10	'n	0	0	4	'n	0	0			6	10	œ	10	0		7	0	0	10	
Soybean	4	0	-	0	0	0	0	4	0	0			0	0	٣	0	0		0	0	0	7	
Sugarbeets	4	0	œ	0	7	0	7	7	0	0			m	5	9	4	0		7	0	0	10	
Velvetleaf	0	0	œ	0	ᆏ	0	m	7	0	0	0	0	0	7	7	Ŋ	0	œ	4	0	0	ω	
Wheat	0	0	m	0	0	0	m	4	0	0			0	9	0	~	0		0	0	0	œ	
Wild oats	4	0	ω	7	ო	0	9	œ	0	0			7	7	Ŋ	9	0		œ	0	0	ω	
Table B								ပ္ပ	MPOU	g													
Rate 500 g/ha	300	301	302	303	304	305	306 3	307 3	08 3	09 3	10 3	11 3	12 3	13 3	14 3	15 3	16 3	17 3	19 3	20 3	21	322	
Preemergence																							
B. signalgrass	7	0	ო	0	0	ហ	0	4	0	7	œ	0	0	0	9	9	6	œ	ო	٣	S	m	
Bedstraw	œ	0	0	ı	0	0	0	0	0	0	10	0	0	0	m	ı	9	ı	7	0	٣	7	
Blackgrass	0	0	Ŋ	0	0	4	0	4	0	9	10	0	0	0	10	10	10	10	7	9	7	7	
Cocklebur	1	1	0	0	0	0	0	ı	0	0	4	0	0	0	0	0	7	0	0	0	0	4	
Corn	0	0	0	0	0	0	0	7	0	4	ഹ	0	0	0	0	٣	ι,	ญ	0	0	0	0	
Crabgrass	7	0	7	ı	æ	7	0	7	0	9	7	0	0	0	ω	7	10	æ	m	7	4	7	
Giant foxtail	10	0	6	0	9	10	6	6	0	σ	10	0	0	0	10	10	10	10	Q	7	10	10	
Morningglory	0	0	0	m	0	0	0	0	0	0	œ	0	0	0	0	0	0	0	0	0	0	0	
Nutsedge	0	0	0	0	0	1	0	0	0	0	10	0	0	0	0	0	1	0	0	0	0	0	
Rape	0	0	ı	0	0	0	0	0	0	0	10	0	0	0	7	0	4	10	0	0	0	7	
Redroot pigweed	0	0	0	0	0	7	0	4	0	~	10	0	0	0	6	٣	10	10	0	0	0	8	
Soybean	0	0	0	0	0	0	0	0	0	0	വ	0	0	0	0	0	0	4	0	0	0	0	
Sugarbeets	0	0	7	0	9	ო	0	7	0	0	10	0	0	0	9	7	4	œ	0	0	0	4	
Velvetleaf	0	0	0	0	0	0	0	7	0	7	œ	0	0	0	Ŋ	0	9	œ	0	0	0	0	
Wheat	7	0	0	0	0	0	0	0	0	0	7	0	0	0	ო	7	7	œ	0	0	0	0	
Wild oats	m	0	ß	0	0	7	0	8	0	7	σ	0	0	0	m	m	9	10	0	0	ß	m	
Table B								ຽ	OMPOU	£													
Rate 500 g/ha	323	325	326	327	328	329	330	331 3	32 3	33 3	34 3	35 3	36 3	37 3	38 3	39 3	40 3	141 3	42	343	344	345	
Preemergence																							
B. signalgrass	0	0	7	7	S	0	0	0	0	0	0	0	0	0	0	0	7	0	9	œ	0	0	
Bedstraw	1	0	ı	ı	1	•	0	0	•	0	0	ı	0	0	0	0	ហ	~	ı	ı	ı	0	

Table Sol Cyrke	ail 2 2 2 5 6 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	00 m m m m m m m m m m m m m m m m m m		ည် က	3 5	m	, <del>L</del>							000000000000000000000000000000000000000	110 110 100 100 100 100 100	001800100000	
1   2   10   10   10   10   10   10	ss 7 4 4 4 4 6 10 10 10 10 10 10 10 10 10 10 10 10 10	0 m m 0 1 1 0 0 0 0 0 0 m . m . m . m . m . m . m .	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<u>ဂ</u> ္ဂ က	3 3	m	7							0 6 0 0 0 0 0 0 0	110 110 10 10 10 10 10	018001000000000000000000000000000000000	
1	1 2 2 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8 HO 1 1000000 H WH WH	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ဥ က	3 3	m	7 2							60000000	10 10 10 10 10 10	10000000000000000000000000000000000000	
1   2   10   9   9   9   9   9   9   9   9   9	1 2 10 9 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 N 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ည် က	3 5	m	7							0000000	10 3 6 0 7 7 7 9	80000000000000000000000000000000000000	
eed 0 0 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0	teed 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ည် က	3 3	m	<b>ι</b>							000000	10 10 10 10 10 10	7000000	
gyeed 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	gweed 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35 00 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ö m	3 3	m	ស							00000	10 10 7 7 9	0 0 0 0 0 0	
gweed 0 0 1 1 2 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	gweed 0 0 1 2 0 0 7 3 0	353 353 353 353 353 353 353	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ဥ က	3 0	m	<del>ن</del> -							00000	10 10 10 10 10 10 10	1000000	
gyeed 0 0 0 7 3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	gweed 0 0 7 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ည် က	3 3	m	ιn.							0000	10 0 7 7 9	0 0 0 0 0 0	
$  \begin{tabular}{lllllllllllllllllllllllllllllllllll$	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 8 8 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ဥ က	βe	m	r)							000	95760	0 0 0 0 0 0	
	9/ha 348 349 350 351 3  g/ha 348 349 350 351 3  ce rass 7 4 4 4 4 8 8 8 6 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	353 353 353 353 353 353	0 0 0 0 54 3	ဥ က	3 (2	m	r.							00	9 2 2 6	0 0 0 0 5	
$  \begin{tabular}{lllllllllllllllllllllllllllllllllll$	g/ha 348 349 350 351 3  g/ha 348 349 350 351 3  ce rass 7 4 4 4 9 4 8 8 0 0 0 0 0 9 2 7 6 10 9 10 10 ry 0 0 2 0 rxy 0 0 2 0 rxy 0 0 0 10 9 gweed 10 7 10 10 gweed 10 7 10 10 10 10 10 10 2 2 10	353	54 3 54 3	ည် က	33	m	ι.							0	L 72 9	0 0 0 0	
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500 g/ha 372 373 374 375 376 378 379 380 381 382 383 384 385 387 388 389 390 391 393 394 395 39				S	POUN												
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B. signalgrass	œ	7	2	œ	0	0	0	0			9	7	σ	7		4	10	0	7	10	0	2
Bedstraw	10	0	ı	10	ı	0	•	ι			1	1					ł		ı	ı	0	ı
Blackgrass	10	<b>ر</b>	ω	10	0	0	0	~			7	7	10	~			10		٣	10	0	Ŋ
Cocklebur	7	0	0	0	0	0	0	ı			0	0	0	0			1		0	0	0	0
Corn	σ	ᡣ	0	۲	0	0	0	0			0	2	0	0			7		0	വ	0	0
Crabgrass	10	10	σ	10	0	10	۵۵	0			10	σ	10	σ			10		œ	10	7	10
Giant foxtail	10	10	10	10	0	10	Q	10			10	10	10	6			10		10	10	7	10
Morningglory	ო	ᆏ	0	0	0	0	0	0			0	7	7	0			7		7	7	0	0
Nutsedge	10	0	0	0	0	0	0	0			0	0	0	0			7		0	9	0	0
Rape	10	ı	7	ω	0	0	0	0			0	0	4	0			ω		0	6	0	0
Redroot pigweed	10	10	ı	10	0	0	0	9	0	0	٣	0	10	6	10	10	10	0	10	10	0	æ
Soybean	77	~	0	0	0	0	0	0			0	٣	0	0			٣		0	7	0	0
Sugarbeets	10	7	4	7	0	0	0	0			0	7	7	7			œ		٣	7	0	7
Velvetl af	7	0	0	7	0	0	0	0			0	٣	ო	m			7		0	7	0	0
Wheat	9	0	0	m	0	0	0	0			0	٣	œ	0			6		0	σ	0	0
Wild oats	10	0	0	σ	0	0	0	4			0	9	10	7			10		٣	10	0	4
Table B								ပ္ပ	MPOU	g												
Rate 500 g/ha	397	398	400	401,	402 4	403 4	404 4	105 4	90	07 4	08 4	9 4	10 4	11 4	14 4	15 4	164	17 4	118 4	119 4	20 4	.21
Preemergence																						
B. signalgrass	10	10	4	0	0	7	10	0	0	0		δ	10	10		9		7	9	œ	œ	6
Bedstraw	ı	1	1	ı	10	1	10	ı	ı	0		ı	i	J		ı		1	ı	ŧ	1	•
Blackgrass	10	10	0	7	10	σ	10	0	0	0	10	10	10	10	10	თ	10	9	0	m	10	10
Cocklebur	0	0	0	0	0	ı	0	0	0	0		7	0	0		0		0	0	0	0	0
Corn	8	∞	~	0	6	9	9	ı	0	0		10	თ	δ		4		0	ı	0	7	8
Crabgrass	10	10	10	10	10	10	10	10	9	6		10	10	10		10		10	10	σ	10	10
Giant foxtail	10	10	10	œ	10	10	10	10	σ	10		10	10	10		10		10	10	Ŋ	10	10
Morningglory	4	0	0	0	7	0	Ŋ	0	0	0		2	0	7		0		0	0	7	∞	œ
Nutsedge	0	0	0	0	0	0	0	0	0	0		æ	ı	7		0		0	0	0	10	0
Rape	10	10	0	0	œ	7	œ	0	0	0		9	œ	10		10		9	σ	7	œ	10
Redroot pigweed	10	10	ဖ	0	10	σ	10	0	0	0		10	œ	12		10		10	œ	10	വ	10
Soybean	0	0	0	٣	-	7	ო	ო	0	0		œ	ო	Н		0		0	0	0	0	10
Sugarbeets	σ	σ	4	0	æ	ហ	∞	0	0	0		0	0	œ		œ		9	~	ហ	m	10
Velvetleaf	9	7	~	0	∞	ហ	7	0	0	0		8	ω	Φ		7		9	9	4	7	10
Wheat	æ	7	0	0	9	0	ß	0	0	0		10	æ	10		٣		7	7	0	7	9
Wild oats	10	œ	0	0	10	∞	10	0	0	0		œ	10	10		9		4	0	7	Ŋ	10
Table B								ರ	OMPOL	Q.												

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44	_										10							468								9								
443	10	1	0	0	0	o,	70	0	0	0	9	0	0	Ç	٥	٠		467																
441	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		466								10								
440	α	1	10	0	0	10	10	0	1	m	10	0	7	7	7	9		465		S	ı	10	0	7	2	10	0	0	2	10	1	ស	œ	0
439	0	ı	0	0	0	0	0	0	0	0	0	0	0	0	0	0		463		~	ı	4	0	0	~	10	0	0	0	10	0	0	7	0
438	7	ı	m	0	0	10	10	7	ı	7	10	7	0	9	0	٣		462		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
437	0	1	0	0	0	7	ო	0	0	0	0	0	0	0	0	0		461		0	ı	0	0	0	m	٣	0	0	0	0	0	0	0	0
436	10	1	6	0	თ	10	10	ч	വ	10	10	0	2	7	വ	10		460		0	ı	က	0	~	σ	6	0	0	0	0	0	0	0	0
435 4	Н	1	~	0	0	6	σ	0	0	0	∞	0	-	7	0	ო		459		Н	1	9	0	0	10	. 10	0	0	0	7	0	0	0	0
434 4	0	1	0	0	0	-	7	0	0	0	4	0	0	0	0	0		458		4	1	6	0	ო	10	10	0	0	4,	œ	7	æ	9	7
433 4	9	1	σ	m	0	10	10	ო	0	7	10	0	œ	9	~	ω		457		0	0	0	0	0	0	∞	0	0	0	0	0	0	0	0
432 4	0	ı	7	0	0	ტ	σ	0	0	0	0	0	0	0	0	0		456		~	ı	9	0	0	0	10	~	0	0	2	0	c	7	0
431 4	0	ł	m	1	0	٣	ო	0	0	٣	0	0	0	0	0	~		455		σ	ı	7	0	7	10	10	4	٣	6	10	~	9	9	0
430 4	m	1	6	0	7	10	10	0	0	4	7	0	0	7	ហ	m	0	454		7	1	9	0	m	თ	10	0	0	0	10	0	0	9	0
29	4	ı	m	0	0	10	10	0	0	0	0	0	0	0	0	0	ັ	453 '		9	1	ß	0	m	7	10	m	•	٣	10	0	ស	9	9
428 4	٣	ŧ	~	0	0	10	10	0	0	0	0	0	0	0	0	7		452 /		0	ı	7	0	0	2	7	0	0	0	0	0	0	0	0
427	4	1	છ	0	0	10	10	0	0	0	0	0	0	0	0	m		451		0	s	0	0	0	7	7	0	0	0	0	0	0	0	0
426 4	œ	ı	σ	0	9	10	10	9	0	10	10	0	9	വ	9	10		449		0	₽	٣	0	0	0	10	0	0	0	m	7	0	0	0
425 4	9	ı	10	7	თ	10	10	4	S	10	٣	0	~	9	4	10		448		7	0	7	1	0	0	0	0	0	0	0	0	0	0	0
24 4	0	ı	0	0	0	0	0	0	0	0	0	0	0	0	0	0		447		0	t	0	0	0	6	ω	0	0	0	0	0	0	0	0
23 4	0	1	0	0	0	7	7	0	0	0	0	0	0	0	0	0		446		œ	1	10	0	9	σ	10	σ	0	10	10	7	œ	70	7
422 42	0	ı	0	0	0	0	0	0	0	0	0	0	0	0	0	٣		445		m	ı	Н	1	0	S	თ	0	0	7	10	0	0	ო	0
Rate 500 g/ha 4 Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 500 g/ha 4	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat

Wild oats	0	10	7	0	0	0	0	œ	~	10	m	0	10	0	0	0	0	0	m	7	0	7	
Table B								ၓ	MPOU	Ę													
Rate 500 g/ha 4	469	470	471	472	473	474	476	177	178	479 4	80 4	82 4	85 4	86 4	87	488 4	89	490 4	92 4	93 4	94 4	95	
Preemergence																							
B. signalgrass	10	9	10	10	0	7	0	9	10	σ	6	0	œ	œ	S	10	0	œ	0	0	0	0	
Bedstraw	•	ı	1	t	1	0	1	ო	٠	0		ı		ı	•	ı	ı	•	0	0	0	ı	
Blackgrass	10	1	10	10	٣	თ	0	œ	10	9	σ	4	δ	10	6	10	10	σ	0	0	0	0	
Cocklebur	0	0	0	C3	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	
Corn	σ	0	~	7	0	4	0	0	0	٣	٣	0	7	œ	0	9	Ŋ	ស	0	0	0	0	
Crabgrass	10	σ	10	10	7	10	0	10	2	10	10	œ	10	10	10	10	10	10	ო	~	0	0	
Giant foxtail	10	٣	10	10	7	10	0	10	. 01	10	10	9	10	10	10	10	10	10	σ	10	0	0	
Morningglory	7	0	0	2	0	0	0	0	7	Ţ	0	0	ಶ	0	0	0	Ч	0	0	0	0	0	
Nutsedge	ı	0	0	10	ı	0	0	0	ო	1	0	0	0	0	0	0	0	0	0	0	0	0	
Rape	10	0	10	4	0	4	0	~	9	4	0	0	~	9	0	10	6	ω	0	0	0	0	
Redroot pigweed	10	0	10	10	10	7	4	œ	10	9	6	0	6	6	10	10	10	∞	0	0	0	0	
Soybean	7	0	0	m	0	0	0	♥.	0	0	-	0	0	7	0	-	m	4	0	0	-	0	
Sugarbeets	10	0	4	9	0	'n	0	0	7	Ŧ	0	0	7	9	0	7	2	ស	0	0	0	0	
Velvetleaf	_	0	9	7	0	0	0	0	^	Ŋ	0	7	m	0	0	9	7	7	4	0	0	0	
Wheat	9	0	0	0	0	0	0	0	œ	7	~	0	ഹ	0	0	Ŋ	9	4	0	0	0	0	
Wild oats	10	ო	~	10	0	ω	0	7	10	7	7	m	œ	œ	9	10	σ	æ	0	0	0	0	
Table B								Ü	OMPO	QXS													
Rate 500 g/ha	496	497	498	499	200	501	502	503	504	202	909	208	509	510	511	512	513	514	515	516	517 5	119	
Preemergence																							
B. signalgrass	œ	0	0	~	20	10	10	6	10	9	0	<b>œ</b>	σ	9	0	10	0	10	σ	10	0	0	
Bedstraw	•	0	i	1	10	σ	10	10	ω	O	4	0	σ	4	0	m	4	0	m	7	0	0	
Blackgrass	~	0	0	Н	10	σ	10	10	10	9	0	∞	10	ω	0	10	10	7	œ	10	4	7	
Cocklebur	0	0	0	4	~	m	თ	m	0	7	0	0	Ŋ	0	0	0	0	0	0	0	0	0	
Corn	0	0	0	0	œ	•	σ	6	9	9	0	4	છ	വ	0	٣	4	Ŋ	S	0	m	0	
Crabgrass	ტ	0	S	<b>∞</b>	10	0	10	0	10	∞	9	10	10	σ	10	6	വ	10	6	10	~	10	
Giant foxtail	6	0	œ	10	10	10	10	10	10	10	8	10	10	10	10	10	10	10	10	10	10	10	
Morningglory	0	0	0	0	σ	S	4	7	4	m	0	0	m	വ	0	0	ო	0	0	0	0	0	
Nutsedge	0	0	0	0	10	σ	1	7	œ	∞	10	١	0	0	0	ı	0	0	0	0	0	0	
Rape	0	0	0	0	10	10	9	0	10	თ	œ	m	10	σ	0	വ	7	œ	10	0	4	0	
Redroot pigweed	ω	0	0	0	10	10	10	10	10	10	10	10	10	10	œ	10	10	10	10	10	10	0	
Soybean	0	0	0	0	<b>∞</b>	œ	വ	7	വ	Ŋ	0	0	1	0	0	0	Ŋ	0	0	0	0	0	
Sugarbeets	0	0	0	0	10	ω	7	Q	σ	ω	0	9	7	7	0	ហ	0	9	7	7	D.	0	

Velvetleaf Wheat	00	00	00	00	10 8	വ മ	8 7	ထထ	10 8	10	0 7	0 7	8	90	00	0 9	0 6	ა 4	9	<i>ا</i> م	m v	00
Wild oats	0	0	0	0	10	10	10	Č	10	9 5	7	7	თ	7	7	10	10	9	σ	0	2	0
00 g/ha gence	520	521	522	523	524	525	526	527	5	531	532	533	534	535	536	540	541	543	544	545	546	549
B. signalgrass	0	δ	6	S	1	σ	ı	ı	1	ı	0	Q	•	0	0	œ	ß	9	œ	ហ	7	0
Bedstraw	0	0	10	0	1	0	ı	t	1	ı	0	0	1	0	0	0	m	0	Ø	10	ı	2
Blackgrass	0	ო	σ	7	•	œ	•	ı	•	•	0	9	1	0	0	e	7	~	9	Q	٣	ı
Cocklebur	0	0	•	0	~	ı	0	m	0	0	0	0	0	0	0	10	ı	10	0	0	0	0
Corn	0	m	σ	6	6	œ	7	0	0	0	0	9	٣	~	0	7	0	0	0	0	0	0
Crabgrass	10	10	10	10	10	10	10	10	10	10	10	10	10	10	7	10	10	•	10	10	10	10
Giant foxtail	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	20	6	10	10	10	10
Morningglory	0	0	7	0	7	9	~	~	m	0	0	0	0	~	1	0	0	0	0	80	0	0
Nutsedge	0	0	10	0	4	0	0	0	0	0	0	0	ı	0	0	0	0	œ	0	0	0	0
Rape	0	7	9	7	•	4	ı	ŧ	1	ı	0	7	ı	٣	0	7	0	0	9	7	0	0
Redroot pigweed	0	0	10	σ	•	m	ı	₹*	1	ı	0	œ	ı	4	0	10	0	1	10	10	ı	1
Soybean	0	0	10	0	0	0	0	0	0	0	0	0	•	0	0	0	0	~	0	0	0	0
Sugarbeets	0	m	7	9	1	σ	∞	9	ı	ı	ო	7	1	1	m	4	~	1	4	9	7	٣
Velvetleaf	0	ო	6	Ŋ	4	7	٣	~	0	ഹ	4	S	ო	ı	0	0	0	0	0	0	~	0
Wheat	0	0	∞	4	•	m	ı	ι	1	1	0	0	ł	0	0	0	ო	0	0	7	0	0
Wild oats	0	7	თ	0	ı	œ	1	ı	1	•	0	6	1	0	0	œ	വ	0	4	9	m	٣
Table B									OMPO	Ω												
Rate 500 g/ha	220	551	552	553	554	555	929	557	258	559	260	561	295	263	564	265	999	267	268	269	570	571
Preemergence																						
B. signalgrass	10	σ		œ	20	∞	9	7	9	6	თ	σ	10	10	7	0	σ	σ	σ	0	0	თ
Bedstraw	m	10		10	0	0	0	0	0	0	æ	æ	0	0	0	0	0	0	œ	0	0	0
Blackgrass	თ	თ		1	7	<b>œ</b>	10	œ	σ	10	σ	9	10	6	6	0	10	7	თ	9	0	6
Cocklebur	0	0		10	0	თ	0	0	0	~	0	0	7	~	0	0	0	0	7	0	0	0
Corn	0	ល		٣	7	~	0	0	0	9	ស	ហ	თ	თ	0	0	σ	Ŋ	Ø	σv.	0	0
Crabgrass	10	10	10	10	10	10	10	10	D	10	10	σ	10	0	Q	7	10	6	10	σ	10	m
Giant foxtail	10	10		10	10	2	10	10	10	10	10	7	æ	10	6	7	10	6	10	10	0	9
Morningglory	0	0		~	0	0	0	0	0	00	m	4	∞	m	4	0	0	0	9	0	0	4
Nutsedge	ဖ	0		0	0	0	0	0	0	1	10	ı	1	1	ı	0	0	0	m	0	0	0
Rape	6	9		1	m	0	œ	~	7	10	œ	6	70	6	m	0	10	0	-	თ	0	~
Redroot pigweed	10	10		1	10	7	Ŋ	9	7	10	6	6	10	σ	m	6	10	σ	œ	10	Φ	6

٣	0	0	6	7		594		7	σ	6	7	4	σ	10	9	9	9	10	4	œ	7	7	2		618		0	0	0	0	0	7	0	0	_
0	~	0	0	0		593		0	1	0	0	0	0	0	0	7	0	0	0	0	0	0	0		617		IJ	0	9	0	0	œ	0	0	Ľ
0	m	7	7	σ		592		0	1	0	0	0	~	0	0	0	0	0	0	0	0	0	0		616		-	0	9	0	0	Н	œ	0	c
σ	œ	7	വ	œ		591		0	ı	0	0	0	0	0	0	0	0	0	0	0	0	0	0		615		0	0	4	0	0	0	7	0	_
0	7	0	0	0		590		0	•	0	0	0	m	7	0	0	0	0	0	0	0	0	0		613		9	1	10	<b>∞</b>	σ	10	10	10	c
0	9	~	7	10		589		0	1	0	0	0	9	10	0	σ	0	0	0	0	0	0	0		612		10	10	10	0	0	10	10	10	~
0	0	0	0	0		588		∞	i	œ	0	ß	σ	10	0	0	0	თ	ß	9	Ŋ	œ	7		611		10	10	10	-	თ	10	10	9	·
œ	٣	∞	7	7		587		7	7	œ	0	0	σ	σ	0	0	Н	~	7	0	~	m	9		610		10	10	10	m	∞	10	10	∞	~
9	4	7	10	10		286		10	1	10	0	0	10	10	4	<b>~</b> 3	7	10	0	œ	7	œ	10		609		10	ı	10	m	g	σ	10	ß	V
6	თ	7	თ	10		282		σ	œ	<b>∞</b>	m	Ŋ	10	10	Ŋ	10	10	2	٣	9	9	m	თ		608		10	1	9	0	-	10	10	4	_
7	ω	~	0	6		584		9	6	ŧ	0	m	0	10	ო	0	7	ტ	0	S	Ŋ	m	თ		607		œ	1	σ	0	ဖ	σ	10	0	_
m	7	2	<b>∞</b>	7		582		7	9	0	0	0	7	œ	~	0	٣	თ	0	0	4	0	0		909		0	3	٣	0	0	œ	σ	0	C
٣	σ	9	6	6	OND OND	581		0	0	7	0	σ	σ	10	9	œ	7	10	7	6	10	ស	œ	OND OND	605		0	0	0	0	0	10	10	1	_
0	7	0	7	7	OMPO	280		σ	9	7	m	2	σ	10	0	S	æ	10	0	ស	വ	വ	2	OMPC	604		0	0	0	0	0	٦	7	0	C
0	7	0	m	7	O	579		m	0	0	0	m	10	10	0	٣	0	m	0	0	0	0	0	0	603		0	ı	0	0	0	0	0	0	<b>C</b>
0	0	m	4	9		578		σ	0	4	m	₹	10	10	0	0	4	10	0	m	7	7	~		602		7	0	6	0	7	10	10	0	_
~	ß	9	m	7		211		7	0	9	0	٣	10	10	თ		0	0	0	0	4	0	0		601		œ	•	σ	0	c	10	10	0	1
ო	ဖ	0	9	6		216		თ	0	ص	0	7	σ	9	0	œ	7	10	0	9	m	œ	<b>∞</b>		900		0	0	0	0	0	0	0	0	_
m	1	~	1	1		575		١	0	7	0	ന	σ	10	7	•	7	10	0	7	~	0	~		599		m	0	9	0	0	œ	10	0	0
0	Ŋ	0	Ť	9		574		9	0	~	0	0	σ	10	0	0	0	6	0	ო	~	0	m		598		0	0	0	0	0	0	0	0	_
0	თ	4	9	6		573		10	0	9	0	m	10	10	4	0	٣	σ	0	7	ო	0	0		296		0	0	0	0	0	9	4	0	C
0	œ	4	7	∞.		572		0	0	0	0	0	0	7	0	0	0	Ŋ	0	0	~	0	0		595		0	10	10	0	9	10	σ	9	V
Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 500 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 500 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nintreduce

Rape	10	0	0	0	0	ហ	٣	0	0	0					٦	• •			က	0	0
Redroot pigweed	10	0	0	0	0	10	œ	0	0	0					_				10	0	0
Soyb an	4	0	0	0	0	٦	0	0	0	0									0	0	0
Sugarbeets	9	0	0	20	0	ស	Ŋ	0	0	0									Н	0	0
Velvetleaf	O	0	0	0	0	7	9	0	0	0	0	ω	7 9	10	8	88	80	0	4	0	0
Wheat	9	0	0	0	0	9	0	0	0	0									0	0	0
Wild oats	6	0	0	0	0	œ	8	0	0	0									8	~	0
Table B								ខ្ល		₽											
Rate 500 g/ha	619	620	621	622	623 (	624 6	625 6	627 63	628 62	629 630	0 631	63	2 63	3 63	4 635	636	637	638	639	640	641
Preemergence																					
B. signalgrass	m	0	0	7	7	œ	10					10 1	0	6 1					7	0	œ
Bedstraw	0	0	0	7	ı	m	ı				7									1	ı
Blackgrass	0	0	0	9	ı	o,	δ													00	œ
Cocklebur	0	0	0	1	0	0	0													0	0
Corn	~	0	0	0	0	9	٣													0	7
Crabgrass	œ	9	œ	œ	ı	9	10													10	σ
Giant foxtail	œ	σ	10	σ	თ	10	10	10	10	10 1	10 1	10 1	10 10	0 10	01 0	) 10	10	10	0	6	6
Morningglory	0	0	0	0	0	0	က													0	0
Nutsedge	•	0	0	m	0	0	0													0	٣
Rape	0	0	0	0	7	7	4													9	0
Redroot pigweed	0	0	0	10	0	10	œ													7	7
Soybean	0	0	m	0	0	7	0													0	0
Sugarbe ts	0	0	0	٣	7	œ	0	6												9	0
Velvetleaf	4	0	0	7	0	œ	9	10	10							7 4				0	0
Wheat	0	0	0	0	0	7	m	ហ	0											7	0
Wild oats	0	0	0	m	7	9	Ŋ	2	0									10	m	9	Ŋ
Table B								ပ္ပ	DMPOU	Ð											
Rate 500 g/ha	642	643	645	646	647	648 (	649 6	20 6	52 6	53 65	54 65	5 65	7 65	8 65	099 6	0 661	1 662	663	664	999	999
Preemergence																					
B. signalgrass	œ	9	0	0	10	വ	0	4	7	0	7	0	0	<b>∞</b>	` &	7				œ	ω
Bedstraw	1	1	1	1	1	0	0	S	0	0	0	0								1	1
Blackgrass	7	œ	0	0	10	Ŋ	0	٣	7	0	7	٣								σ	10
Cocklebur	0	0	0	0	7	0	0	0	m	0	0	0								0	0
Corn	0	0	0	0	10	0	0	0	0	0	0	0	œ	7	ō	0		0	0	m	10
Crabgrass	10	10	5	0	σ	σ	6	0	6	œ	0	6								10	10
Giant foxtail	10	10	7	0	10	σ	6	10	6	<b>∞</b>	6	6			•	_	01 0			10	10

Morningglory	0	0	0	0	7	0	0	-	0	0	0				9	0	0	7	7	7	4	~	
Nutsedg	0	0	0	0	ı	0	0	Ŋ	m	0	0	0	9	~	0	0	0	7	0	0		1	
Rape	σ	9	0	0	10	0	0	~	0	0	0				10	4	0	0	4	9	σ	10	
Redroot pigweed	80	Ŋ	4	0	10	7	0	σ	0	ო	Ŋ				10	10	8	7	7	10	10	10	
Soybean	0	0	0	0	П	0	0	0	0	0	0				7	0	-	0	7	0	7	4	
Sugarbeets	7	0	0	0	œ	0	0	4	0	0	0				Ŋ	0	0	0	0	Ŋ	7	ω	
Velvetleaf	ო	0	0	0	6	0	0	0	Н	0	0				7	0	0	7	m	Ŋ	7	8	
Wheat	0	0	0	0	œ	0	0	0	0	0	0				7	0	0	0	m	ល	4	7	
Wild oats	4	Н	0	0	10	0	0	0	0	7	7				σ	m	0	σ	0	7	œ	O	
Table B								ៜ	MPOU	Q													
Rate 500 g/ha	299	899	699	670	671	672	673	674 6	675 6	9 94	9 119	678 67	9 62	80 6	81 6	82	683 6	684 (	685	989	687	689	
Preemergence																							
B. signalgrass	œ	σ	10	10	σ	80	œ	œ	10	œ	Ŋ	0	0	0	0	ω	9	Ŋ	σ	0	10	10	
Bedstraw	1	ı	6	6	1	0	9	0	10		ı	ı	ı	ŀ	ı	0	0	0	0	0	S	7	
Blackgrass	10	10	10	10	10	œ	თ	0	10	œ	0	0	0	4	٣	6	9	7	10	Q	10	10	
Cocklebur	0	0	0	~	-	1	7	0	0		0	0	0	0	0	0	0	0	1	0	0	0	
Corn	10	σ	Ð	Q	6	0	9	æ	δ		0	0	0	0	0	0	٣	0	0	4	7	σ	
Crabgrass	10	œ	10	10	σ	10	10	თ	10		7	Н	Н	٣	7	0	10	6	9	10	9	10	
Giant foxtail	10	10	10	10	10	10	10	10	10		10	4	œ	4	σ	10	10	10	10	10	10	10	
Morningglory	9	ß	0	<b>∞</b>	∞	7	7	7	9		0	0	0	0	0	٣	7	4	-1	0	7	4	
Nutsedge	7	0	9	10	9	0	9	9	7		0	0	0	0	0	0	0	ı	1	0	4	1	
Rape	10	σ	0	10	ω	∞	~	∞	10		0	0	0	0	0	7	0	0	9	9	80	σ	
Redroot pigweed	10	10	10	10	10	80	10	10	10		ı	0	-	٣	٣	7	9	7	∞	7	9	œ	
Soybean	7	9	9	9	٣	0	0	7	4		0	0	0	0	0	0	0	0	0	0	4	7	
Sugarbeets	10	თ	6	σ	0	80	က	თ	10		0	0	0	0	0	7	0	0	9	Ŋ	9	7	
Velvetleaf	10	œ	0	œ	σ	4	œ	10	10		0	~	0	0	0	0	0	ស	0	0	σ	4	
Wheat	9	7	œ	0	œ	0	ı	œ	σ		0	0	0	0	0	0	0	0	0	0	7	7	
Wild oats	10	თ	10	თ	Ŋ	7	∞	10	10		0	0	0	0	0	œ	œ	7	4	7	10	D	
Table B								ບ	OMPOU	ON COL													
Rate 500 g/ha	691	692	693	694	695	969	697	869	669	7 007	701 7	702 7	03 7	04.7	. 90/	. 707	708	. 604	110	711	712	713	
Preemergence																							
B. signalgrass	10	σ	0	œ	9	9	S.	Ŋ	10	10		œ	œ	6	10	10	0	0	δ	∞	00	σ	
Bedstraw	ı	-	0	ı	0	0	0	0	0	æ		0	0	1	1	10	0	0	7	7	Ŋ	9	
Blackgrass	10	10	~	10	6	Q	9	œ	10	10	9	10	ω	10	10	10	Ŋ	0	10	6	6	6	
Cocklebur	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	
Corn	7	m	0	Н	m	ហ	c	_	σ	٧		7	c	c	7	c	c	c	Ľ	u	<	ų	

Crabgrass	10	10	0	10	თ	10	σ	9	10	10	10	10	10				10	7	10	10	10	10
Giant foxtail	10	10	~	10	10	10	10	10	10	10	10	10	10				6	7	10	10	10	10
Morningglory	0	7	0	0	0	0	4	0	9	9	0	0	٣				0	0	ヤ	Ŋ	0	0
Nutsedge	0	0	0	0	0	ı	0	0	0	0	0	0	0				1	ı	1	1	0	0
Rape	œ	9	0	4	0	٣	0	ထ	6	Ŋ	7	7	7	Ŋ	7	10	0	0	σ	œ	œ	œ
Redroot pigweed	0	6	0	0	Ŋ	œ	0	0	9	٣	0	Ŋ	S				9	7	10	10	6	10
Soyb an	~	0	0	0	0	0	0	2	7	0	0	0	0				0	0	9	٦	0	æ
Sugarbeets	œ	m	0	7	0	9	0	0	7	9	0	m	7				0	ო	8	œ	œ	80
Velvetleaf	0	Н	0	~3	0	4	0	0	7	9	4	~	0				9	0	œ	7	9	9
Wheat	m	0	0	0	9	7	7	٣	7	0	0	0	m				0	0	œ	œ	0	ß
Wild oats	თ	6	0	7	9	œ	~	6	10	10	~	თ	7				0	0	10	10	œ	6
Table B								ŭ	DMPOL	ON.												
Rate 500 g/ha	714	715	717	718	719	. 07	721 .	723	724 7	725 7	726 7	728 7	729 7	730 7	732 7	33 7	34 7	735	. 982	737	738	739
Preemergence																						
B. signalgrass	10	10	7	6	δ	10	10	7	0	4	0	6	10	6	0	10		10	œ	σ	10	ι
Bedstraw	1	ı	0	0	0	10	10	0	0	0	0	7	œ	4	0	0		0	œ	0	0	10
Blackgrass	თ	10	10	10	2	10	10	7	0	7	6	10	10	10	0	10	10	10	Q	10	10	10
Cocklebur	0	0	0	0	0	ı	7	0	0	0	0	0	0	0	0	0		0	7	0	0	0
Corn	9	<b>∞</b>	σ	٣	Ŋ	•	œ	0	0	0	7	0	6	Q	0	0		6	7	9	6	7
Crabgrass	10	10	10	10	6	10	6	Q	7	80	10	7	10	10	0	Q		10	ტ	10	10	10
Giant foxtail	10	10	10	10	10	10	10	10	0	10	10	<b>∞</b>	10	10	0	თ		10	σ	10	10	10
Morningglory	m	9	0	0	m	~	S	0	0	٣	Н	7	80	7	0	7		7	ဖ	m	4	0
Nutsedge	0	1	0	0	0	0	~	1	0	0	0	1	7	m	0	ı		ı	10	0	œ	0
Rape	10	10	4	e	9	6	10	0	0	0	7	œ	10	7	0	S		ω	~	9	œ	7
Redroot pigweed	10	10	œ	œ	10	10	10	0	0	٣	ω	σ	10	10	0	7		0	~	œ	<b>&amp;</b>	10
Soybean	0	9	0	0	0	0	7	0	0	0	0	0	7	ო	0	0		0	7	0	0	0
Sugarbeets	9	Φ	m	7	œ	œ	œ	0	0	7	2	4	7	7	0	0		7	m	9	ω	7
Velvetleaf	0	7	0	0	0	m	10	0	0	0	0	0	ω	9	0	Н		ᠬ	4	Ŋ	œ	m
Wheat	9	9	0	7	ß	ហ	œ	0	0	0	0	7	9	0	0	0		7	∞	7	∞	m
Wild oats	9	10	10	ω	თ	6	10	0	0	9	6	10	10	6	0	œ		10	თ	9	10	4
Table B								Ó	OMPO	QNS												
Rate 500 g/ha	740 7	741	742	743	744	745	746	747	748	. 67/	. 05/	751	752	753 7	754 7	755 7	756	757	758	759	160	761
Preemergence																						
B. signalgrass	1	7	0	œ	σ	10	1	6	10	10	ı	•	t	σ	6	0	٣	7	∞	œ	10	m
Bedstraw	0	Ŋ	0	œ	œ	ហ	ı	0	0	4	•	10	10	က	0	0	0	0	4	0	9	0
Blackgrass	9	0	0	6	6	6	ı	<b>œ</b>	σ	o,	•	10	10	σ	σ	0	7	7	9	œ	<u>ه</u>	0

Cockl bur	0	ı	0						0	0		0	0	0	7	0	0	0	0	0	0	0	0	
Corn	0	0	0									9	σ	0	0	0	0	0	0	m	0	4	0	
Crabgrass	6	10	0									10	10	10	6	σ	0	δ	σ	10	σ	10	m	
Giant foxtail	10	10	0									10	10	10	6	6	7	6	9	10	10	10	6	
Morningglory	0	0	0									9	Ŋ	0	0	-	0	0	0	0	0	0	0	
Nutsedge	0	0	0									δ	0	0	0	10	0	7	0	ŧ	0	0	0	
Rape	ı	0	0									ı	6	2	7	œ	0	0	0	œ	4	S	0	
Redroot pigweed	10	7	0									1	10	10	10	9	0	0	٣	10	4	Q	0	
Soybean	0	0	0	0	0	0	5	9		0	٣	Ŋ	6	0	0	0	0	0	0	0	0	0	0	
Sugarbeets	Ŋ	4	0									t	7	٣	æ	7	0	0	0	ω	Ŋ	9	0	
Velvetleaf	ო	٣	0									7	ω	7	7	2	0	0	0	7	0	0	0	
Wheat	m	4	0									ı	10	0	٣	თ	0	0	m	7	œ	m	0	
Wild oats	9	7	0				٠		,		œ	ı	10	œ	6	0	0	0	Ŋ	6	<b>œ</b>	9	0	
Table B									COMPC	$\overline{}$	GND													
Rate 500 g/ha	762	763	764	765	166	767	1 772	77	3 774		775 7	. 44	778	. 08/	. 06/	791	792							
Preemergence																								
B. signalgrass	0	œ	10									1	ı	4	σ	ı	ı							
Bedstraw	0	œ	00									0	10	7	σ	ı	ı							
Blackgrass	σ	10	σ									10	10	Q	10	1	ı							
Cocklebur	0	0	80									0	0	7	10	0	0							
Corn	0	0	σ									0	0	Ø	σ	0	4							
Crabgrass	10	თ	10	10	10	10		0	0	0	10	10	10	10	10	10	10							
Giant foxtail	9	6	10									10	10	10	10	10	10							
Morningglory	0	S	7									Ŋ	0	7	7	0	0							
Nutsedge	9	2	4									ı	9	1	0	0	0							
Rape	0	9	10									~	Ŋ	9	œ	1	ı							
Redroot pigweed	ო	10	70									7	0	9	10	ı	ı							
Soybean	0	0	ഗ									0	⊣	٣	7	വ	0							
Sugarbeets	4	9	Φ									ო	9	9	7	1	ì							
Velvetleaf	S	m	ω									0	0	Ŋ	7	0	ഹ							
Wheat	0	7	-									თ	œ	Q	σ	1	1							
Wild oats	0	6	-									თ	œ	თ	10	1	ı							
Table B									ව්	INDOME	£													
Rate 250 g/ha	7 1	18 3	0 35	36	46 4	47 69	9 70	71	72 7	78 8	86 87	7 93	94	103	105	107	108	109	111	113	116	117	118	
Pre-emergence																								
Barnyardgrass	0	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Ducksalad	0	0			0	0	0			0	0			0	0	0	0	0	0	0	0	0	0
Ric	0		0	0	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0
S. Flatsedge		0			0	7	0		0	0	0			0	0	0	0	0	0	0	0	0	0
Table B									ັບ	OMPO	QN5												
Rate 250 g/ha	119	121	12	2 12	3 12	4 1	25 1	29	131	139	146	154	165	166	177	180	181	182	183	184	185	186	187
Pre-emergence																							
Barnyardgrass	0	0		0	0	0	0	0	σ	0	<del>, -</del>	0	0	0	0	0	0	0	0	0	0	0	0
Ducksalad	0	0		0	0	0	0	Ŋ	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ric	0	0		0	0	0	0	œ	ស	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S. Flatsedge	0	0		0	0	0	0	δ	œ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Table B									Ü	OMPO													
Rate 250 g/ha	189	190	19	1 19	2 1	93 1	94 1	95	196	197	198	200	201	202	203	204	205	206	207	208	210	211	212
Pre-emergence																							
Barnyardgrass	0	0	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0
Ducksalad	0	0	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rice	0	0	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S. Flatsedge	0	0	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Table B									ပ	OMPO	<u>Q</u>												
Rate 250 g/ha	213	214	21	5 21	9	17 2	218 2	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234
Pre-emergence																							
Barnyardgrass	0	0	_	0	0	0	0	ω	7	0	0	0			0	0	0	0	0	0	0	0	0
Ducksalad	0	U	_	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0
Rice	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S. Flatsedge	0	•	_	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0
Table B									U	OMPC													
Rate 250 g/ha	235	236	6 23	37 23	8	39 2	40	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256
Pre-emergence																							
Barnyardgrass	0	_	_	0	0	0	0	0	0	0	0	0					0	0	0	0	0	0	0
Ducksalad	0	Ü	_	0	0	0	0	0	0	0	0	0					0	0	0	0	0	0	0
Rice	0	Ū	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S. Flatsedge	0	Ŭ	_	0	0	0	0	0	0	0	0	٥					0	0	0	0	0	0	0
Table B									O	OMPO													
Rate 250 g/ha	257 25		8 25	29 20	64 2	65	766	267	268	269	270	271	272	273	274	276	277	278	279	280	281	282	283
Pre-emergence																							
Barnyardgrass	0	_	0	0	0	0	0	0	0	0	0	σ	0	4	0	80	~	0	0	0	4	0	9
Ducksalad	0	_	0	0	0	0	0	0	0	0	0	Ü						0	0	0	0	0	0

284 285 286 288 289 290 291 293 294 295 296 296 299 290 291 293 294 295 296 296 291 293 294 295 296 296 299 290 291 293 294 295 296 296 296 299 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		00	00	0 0		00	0	0	00	0	0	00	00	<b>5</b> 0	00	> ~	00
4 7 0 9 3 4 4 0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 286 288 28	σ	91	ე 93	ND0 29	29		298	299	300 3	01 3	02 3	03 3	04 30	05 30	9	07
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0	4	4	0	6			0	9	0	0	0	0	0		0	0
0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0	0	0			0	0	0	0	0	0	0		0	0
308 309 310 311 312 313 314 315 316 317 318 31  0 0 4 0 0 0 0 0 0 3 0 0 0  0 0 0 0 0 0 0 0 0	0	0	0	٣	0		0	0	0	0	0	0	0	0	0	0	0
COMPOUND  250 g/ha 308 309 310 311 312 313 314 315 316 317 318 31  mergence ardgrass 0 0 4 0 0 0 0 0 3 0 0 0  atsedge 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  atsedge 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	0	0	0	0			0	0	0	0	0	0	0		0	0
308 309 310 311 312 313 314 315 316 317 318 31  0 0 4 0 0 0 0 0 0 3 0 0  0 0 0 0 0 0 0 0 0 0					ಸ	Д											
mergence ardgrass 0 0 4 0 0 0 0 8 9 0 0 0 alalad 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 310 311 31	-	4	15 3	6 3	31		320	321	322 3	23	324 3	25 3	26 3	27 32	8 32	9
ardgrass 0 0 4 0 0 0 0 8 9 0 0 0 0 albein of the control of the co	,							•		ı							
atsedge 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 0		0	œ	0			0	0	7	0	0	0	ω	ო	0	0
dge 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	0		0	0	m		0	0	0	0	0	0	0	0	0	0	0
atsedge 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0		0	0	1			0	0	0	0	0	0	0	0	0	0
COMPOUND 250 g/ha 330 331 332 333 334 335 336 337 338 339 340 3.  mergence ardgrass 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0		0	0	ტ			0	0	0	0	0	0	0	0	0	0
250 g/ha 330 331 332 333 334 335 336 337 338 339 340 340 amergence						Р											
mergence ardgrass 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 332 333 33	33	36	37 3	8	9 34		346	350	351	353 3	543	58 3	65 3	96 36	7 36	80
rardgrass 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																	
salad 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0		0	0	0	•-1		0	0	0	0	0	σ	0	0	0	0
1 catsedge 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0		0	0	0		0	0	0	0	0	0	0	0	0	0	0
ha 369 370 371 372 373 374 375 376 378 379 380 3 s 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0		0	0	0			0	0	0	0	0	0	0	0	0	0
COMPOUND  ha 369 370 371 372 373 374 375 376 378 379 380 3:  s 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0		0	0	0			0	0	0	7	0	œ	0	0	0	7
250 g/ha 369 370 371 372 373 374 375 376 378 379 380 3: mmergence rardgrass 0 0 0 0 0 0 0 0 0 0 0 0 salad 0 0 0 0 0 0 0 0 0 0 0 0 latsedge 0 0 0 0 0 0 0 0 0 0 0 0 s B 250 g/ha 393 394 395 401 402 403 404 405 406 407 408 4 mmergence rardgrass 0 6 0 0 0 0 0 0 0 0 0 s alad 0 3 0 0 0 0 0 0 0 0 0 0 s alad				ပ္ပ		6											
mergence rardgrass 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 371 372 37	37	75	91	78 3	m		382	383	384	385 3	87 3	88 3	89 3	90 39	1 3	92
Ardgrass 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0		0	0	0			0	0	0	0	0	0	0	4	0	0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0		0	0	0		0	0	0	0	0	0	0	0	0	0	0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0		0	0	0			0	0	0	0	0	0	ı	т	0	0
COMPOUND ha 393 394 395 401 402 403 404 405 406 407 408 4 e s 0 6 0 0 8 2 9 0 0 0 0 c 0 3 0 0 0 0 5 0 0 0	0		0	0	0			0	0	0	0	0	0	0	0	0	0
393 394 395 401 402 403 404 405 406 407 408 4 0 6 0 0 8 2 9 0 0 0 0 0 3 0 0 0 0 5 0 0 0 0				ပ္ပ		₽											
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	0		60	0	0		0	6	0	0	0	0	0	0	0	0	0
	0		Ω	0	0				0	0	0	0	0	0	0	0	0
	0		7	0	0				0	0	0	0	0	0	0	0	0

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0	468	0	0	0	0		494		0	0	0	0		570		0	0	0	0		909		0	0	0	0		629		0	0	0	0
0	467	0	0	0	0		493		0	0	0	0		568		m	0	0	0		605		0	0	0	0		628		0	0	0	0
0	466	0	0	0	0		492		0	0	0	0		567		0	0	0	0		604		0	0	0	0		627		0	0	0	0
0	465	0	0	0	0		490		0	0	0	0		561		0	0	0	0		603		0	0	0	0		625		0	0	0	ō
0	463	0	0	0	0		489		0	0	0	0		260		0	0	0	0		602		0	0	0	0		624		0	0	0	0
0	462	0	0	0	0		488		0	0	0	0		558		~	0	ı	0		601		0	0	0	0		623		0	0	0	0
0	461	0	0	0	0		487		0	0	0	0		929		0	0	0	0		009		0	0	0	0		622		0	0	0	0
0	460	0	0	0	0		486		0	0	0	0		552		0	0	ı	0		599		0	0	0	0		621		0	0	0	0
0	459 /	0	0	0	0		485		0	0	0	0		550		0	0	0	0		598		0	0	0	0		620		0	0	0	0
ø.	458	0	0	0	0		483		0	0	0	0		546		0	0	•	0		969		0	0	0	0		619		0	0	0	0
~	457	0	0	0	0		482		0	0	0	0		539		0	0	0	0		595		0	0	0	0		618		0	0	0	0
0	456	0	0	0	0		480 '		0	0	0	0		538		0	0	ı	0		594		0	0	0	0		617		0	0	0	0
o 6	455 4	0	0	0	0	Q S	479		0	0	0	0	OND	532		σ	ტ	თ	6	S S	593		0	0	0	0		919		0	0	0	0
0 OMPOU	454	0	0	0	0	OMPO	478		0	0	0	0	OMPO	531		0	0	0	0	OMPO	592		0	0	0	0	OMPO	615		0	0	0	0
ິດ	453 (	0	0	0	0	ັບ	477		0	0	0	0	ບ	529		0	0	1	0	ŭ	591		0	0	0	0	O	614		0	0	0	0
œ	452	0	0	0	0		476		0	0	0	0		528		0	0	1	0		290		0	0	0	0		613		0	0	0	0
0	451 4	0	0	0	0		474		0	0	0	0		521		0	0	0	0		589		0	0	0	0		612		0	0	0	0
0	450 4	0	0	0	0		473 (		0	0	0	0		509		0	0	0	0		288		0	0	0	0		611		0	0	0	0
0	449	0	0	0	0		472		0	0	0	0		499		0	0	0	0		287		0	0	0	0		610		0	0	~	0
0	448	0	0	0	0		471 /		0	0	0	0		498		0	0	0	0		286		0	0	0	0		609		0	0	0	0
ω	7	0	0	0	0		470		0	0	0	0		496		0	0	0	0		280		0	0	0	0		809		0	0	0	0
0	446 44	0	0	0	0		469		0	0	0	٥		495		0	0	0	0		577		0	0	0	0		209		0	0	0	0
S. Flatsedge Tabl B	Rate 250 g/ha	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Tabl B	50 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	50 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 250 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 250 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge

4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	668 671 0 0 0 0 0 0 0 0 0 0 721 724 721 724 16 17	674 6 674 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	41000014	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	67	649	0000000	681 000 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	668 671 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000 4 0000 0 0000	0000 2 0000	00 00 00 00 00 00 00 00 00 00 00 00 00	9			<b>~</b>	<b>6</b>
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0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	668 671 0 0 0 0 0 0 0 0 721 724 0 0 0 0 0 0 0 0 16 17	00 4 0000 0 000	00 00 00 00	8 0000 6	9			<b>∞</b>	<b>o</b>
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	668 671 0 0 0 0 0 0 0 0 721 724 0 0 0 0 0 0 0 0 16 17	0 4 0000 0 000	0 0000 20	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9			<b>∞</b>	<b>6</b>
COMPOUND 59 660 661 662 663 664 665 666 667 6 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	668 671 0 0 0 0 0 0 721 724 0 0 0 0 0 0 16 17	4 0000 0 000	5 0000 4 00	9 00 0 8	9			<b>∞</b>	<b>6</b>
59     660     661     662     663     664     665     666     667     6       2     0     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0	668 671 0 0 0 0 0 0 721 724 0 0 0 0 0 0 0 0	4 0000 0 000	2 0000 4 00	9 00 0 8	9			α .	0
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000 0 000	0000 17 00	0 0 0 0 58 7			0000	0000	9999
	0 0 0 0 0 0 721 724 0 0 0 0 0 0 16 17	0000 0000	0000 11 00	0 0 0 0 58 7			0000	0000	0 0 0 0
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	721 724 0 0 0 0 0 0 0 0 16 17	00 0 000	0 0 0 0	0 0 58 7			00	0 0	Νσ
0 0 0 0 0 0 0	0 0 721 724 0 0 0 0 0 0	0 0 000	0 47	0 58 7			0	0	თ
	721 724 0 0 0 0 0 0 16 17	0 000	1410	58 7					
COMPOUND	721 724 0 0 0 0 0 0 16 17	0 000	1410	58 7					
696 697 699 701 702 705 706 715 720 721	0 0 0 0 0 0 16 17	0000	0 0		65				
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COMPOUND	16 17								
3 4 5 6 7 8 9 10 11 12 13 14 15 16		18 19	20 5	21 22	23 24	4 25	26 27	7 28	29
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0 0 2 0 0 0 4 0 0 2 0 0	0				0				0
3 0 0 0 0 0 0 0 0 0 0 0	0				0				0
7 4 0 0 2 0 0 0 0 0 0 0	0				0				0
5 5 7 2 2 0 4 0 0 3 0 0	0				0				0
65000100005	0				0				0
0 0 0 0 0 0 0 0 0 0 0	0				0				0
8 6 2 1 0 0 9 0 0 5 0 3	0				9				0
2 0 0 0 0 0 0 0 0 0 0 0 0	0				0				0
3 7 4 3 0 0 8 0 0 2 0 0	0				7				0
0 2 0 0 0 4 6	1 1	2	7	2	10 1	0	m	0	0
0 0 0 0 0 0 0 0	0				0				0
0 2 0 0 0 0 0 0 0 0 0 0	0				0				0

Bedstraw	0	7	9	7									0	7										ı	0	9	9
Blackgrass	0	0	9	0									0	0										1	0	<del></del> 1	7
Cocklebur	0	0	0	<u>.</u>									0	0										1	0	~	~
Corn	0	0	0	0									0	0										ı	0	00	0
Crabgrass	~	-	0	0									0	~										1	0	Ŋ	S
Ducksalad	0	0	0	0									ł	0										0	0	0	0
Giant foxtail	~	0	0	0									0	~										•	0	٣	٣
Morningglory	7	7	4	7									0	7						7		Н		ı	0	7	7
Nutsedge	0	0	0	0								0	0	0										ı	0	0	0
Rape	0	0	0	0									0	0										ı	0	7	~
Redroot pigweed	0	4	٣	0									0	0										1	0	2	ß
Rice	0	0	0	0	0	0	0	0	0	-	1		ı	0	0	7	٠ ٣	0	0	0	0	0	0	0	0	0	0
S. Flatsedge	0	0	0	0									ı	0										0	0	0	0
Soybean	7	٣	4	~								0	0	m										1	0	7	7
Sugarbeets	0	0	7	0									0	0										1	0	٣	ო
Velvetleaf	0	0	0	7									0	4										1	0	0	0
Wheat	0	0	0	0									0	0										ı	0	0	0
Wild oats	0	0	0	٣									0	7										1	0	0	0
Table B										υ	S	О	_														
Rate 250 g/ha	88	68	5 06	91 9	92 9	3 9	4 9	5	6 97	6	99	100	101	7	02 1	103	104	105	-	06 1	07	108	10	9 11	0	111	112
Postemergence																											
B. signalgrass	0	0	0	œ	7							_	_	0	0	0	0		~	0	œ	ന		<b>&amp;</b>	0	0	0
Barnyardgrass	ı	0	0	ı	ı									0	0	•	ı		_	0	ŧ	0		0	0	0	0
Bedstraw	6	0	1	,										,	0	0	1		<b>~</b> 1	ო	4	~		6	œ	7	7
Blackgrass	ø	0	0	æ										0	0	4	Ŋ		7	٦,	æ	7		<b>&amp;</b>	4	Ŋ	ហ
Cocklebur	Н	7	m	4										0	0	0	7		_	7	Н	0		4	7	7	7
Corn	0	0	0	٣										0	0	0	0		c	0	ß	0		۳	0	0	0
Crabgrass	თ	0	~	9										0	0	9	ß		7	m	σ	æ		6	~	٣	7
Ducksalad	1	0	0	ı										0	0	ı	ı		C	0	ı	0		0	0	0	0
Giant foxtail	m	0	7	∞										0	0	m	4		7	٣	æ	œ		<b>م</b>	വ	വ	7
Morningglory	10	0	4	œ	٠.	Н									Н	10	10		~	ω	m	m		Ŋ	ß	S	10
Nutsedge	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0		0	0	2	4		0	0	0	0
Rape	0	0	0	7										ò	0	ᆏ	0		0	0	ო	0		4	4	٣	m
Redroot pigweed	ო	0	9	9										0	0	7	m			0	ហ	0		80	2	4	ß
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Cocklebur	0	9	0	0	0	0	0	~	٣	m	2		0	0	0	0	m	0	4	0	0
Corn	7	7	4	7	9	ო	0	0	0	~			0	0	0	0	0	0	ഹ	0	0
Crabgrass	თ	Q	ω	ω	σ	<b>.</b>	m	7	8	0	8	m	m	0	0	0	0	0	σ	0	ŧ
Ducksalad	ı	ı	ł	ı	ı	ı	ı	ı	ì	1			4	ı	1	ı	ı	1	•	ı	1
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Morningglory	ø	7	m	7	4	7	Ŋ	7	4	9			7	0	4	0	ч	0	~	10	7
Nutsedge	9	1	0	ı	0	0	0	t	,	0			4	0	0	ı	0	0	ı	0	0
Rape	0	m	0	0	7	0	0	0	7	7	0		0	0	0	0	0	0	~	0	0
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Sugarbeets	0	ო	0	0	0	0	0	0	7	ស			0	0	0	0	0	0	7	0	0
Velvetleaf	ω	∞	Ŋ	4	7	0	0	٣	7	m	4	3	0	m	0	0	0	0	9	0	0
Wheat	9	7	0	0	9	0	0	0	7	0	3	0	0	0	0	0	0	0	9	0	0
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Cocklebur	0	0	0	0	0	0	0	0	0	٣												
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Crabgrass	0	0	_	7	~	7	00		7	σ	σ	1															
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Rape	0	_		0	7	0	7		0	m	2	7															
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Giant foxtail	œ	7														7								7	0	7	٣
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B. signalgrass Bedstraw Blackgrass Cocklebur Corn Crabgrass Giant foxtail Morningglory Nutsedge Rape Rape Redroot pigweed Soybean Sugarbeets Velvetleaf Wheat Wild oats Table B Rate 250 g/ha	Preemergence B. signalgrass Bedstraw Blackgrass Cocklebur Corn Crabgrass Giant foxtail Morningglory Nutsedge Rape Rape Rape Rape Rape Rape Rape Rap

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000	00	0	0	0	0		319		7	0	7	0	0	7	σ	0	0	0	0	0	0	0	0	0		341		0	•	9	0	0
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Morningglory Nutsedge Rape	Redroot pigweed	Sugarbe ts	Velvetleaf	Wheat	Wild oats	Table B	Rate 250 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cockl bur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarb ets	Velvetleaf	Wheat	Wild oats	Table B	Rate 250 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn

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Crabgrass	Glant Toxtall	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 250 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 250 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass

Cocklebur	0	0	~	0	0	0	0					0		0		0	0	0				0
Corn	1	0	1	0	6	0	٣					7		ო		7	0	0				4
Crabgrass	10	ტ	10	0	10	m	10					10		10		10	œ	7				10
Giant foxtail	10	10	9	0	10	10	10					10		10		20	9	7				10
Morningglory	0	0	9	0	0	0	0					0		7		4	0	0				0
Nutsedge	0	0	0	0	0	0	~					0		0		0	0	0				0
Rape	~	0	œ	0	S	0	7					0		വ		7	0	0				7
Redroot pigweed	9	4	10	0	10	7	9					9		4		10	0	0				7
Soybean	0	0	7	0	0	0	-					0		0		0	0	0				0
Sugarb ets	m	0	∞	0	7	~	4					~		m		9	0	0				0
Velvetleaf	7	0	9	0	Ŋ	0	7	0	0	9	9	0	0	m	٣	Ŋ	0	0	0	7	9	9
Wheat	4	0	œ	0	œ	0	9					0		~		4	0	0				7
Wild oats	10	<b>~</b>	10	0	10	0	10					0		œ		10	0	0				7
Table B								ខ	MPOU	g												
Rat 250 g/ha	411	414	415	416	417 (	418 4	419 4	20 4	21 4	22 4	23 4	24 4	25 4	26 4	27 4	28 4	29 43	30 4	31 4	32 4	33 4	34
Preemergence																						
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Bedstraw	•	0	ı	ı	,	,	ı	,	ı	ι	ı				ı				•	•	t	1
Blackgrass	თ	m	σ	10	7	_	0	∞	10	0	0				4			7	0	0	М	0
Cocklebur	0	0	0	0	0	0	0	0	ı	0	0				0			0	0	0	7	0
Corn	œ	0	ო	٣	0	7	0	0	œ	0	0				0			0	0	0	0	0
Crabgrass	10	ტ	0	10	თ	10	4	6	თ	0	ı				σ			10	1	œ	10	0
Giant foxtail	10	2	10	10	2	ខ្ព	~	10	10	0	m				10			10	7	ø	10	0
Morningglory	7	0	0	9	0	0	-	7	7	0	0				0			0	0	0	~	0
Nutsedge	0	0	0	m	0	0	0	0	0	0	0	0	ო	0	0	0	0	0	0	0	0	0
Rape	σ	0	10	6	ហ	0	~	0	70	0	0				0			0	0	0	٣	0
Redroot pigweed	10	0	9	10	4	œ	9	~	10	0	0				0			~	0	0	7	0
Soybean	0	0	0	7	0	0	0	0	ഹ	0	0				0			0	0	0	0	0
Sugarbeets	80	0	9	7	~	~	m	2	10	0	0				0			0	0	0	4	0
Velvetleaf	9	0	9	9	~	Ŋ		9	10	0	0				0			4	0	0	4	0
Wheat	7	0	7	7	0	0	0	7	7	0	0				0			0	0	0	0	0
Wild oats	∞	~	9	∞	~	0	0	7	10	0	0				7			٣	~	0	9	0
Table B								ၓ	DMPOU	ON.												
Rate 250 g/ha	435	436	437	438	439	440	441 4	442	443 4	144 4	145	146 4	47 4	148	449	150 4	51 4	52 4	53 4	54 4	55 4	951
Preemergence																						
B. signalgrass	0	0	0	0	0	œ	0	0	0	-1	~	7	0	0	0	m	0	0	9	7	9	0

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ı		ω	0	7	σ	10	0	0	80	10	7	9	7	m	<b>∞</b>		469		7	1	Ð	0	80	10	10	0	0	10	10	0	80	9	ო	10	
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Bedetrau	Decision of	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 250 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B

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526 525 524 523 522 00000000000000000 521 520 0000000000000000 519 1 40000000000000 518 010000000000000 517 00000000100000 513 514 515 516 0000000000000000 0 4 0 9 7 0 COMPOUND 512 511 509 510 1 6 9 9 4 0 1 0 9 4 0 1 508 000000000000000 505 506 100086060807078 Redroot pigweed Redroot pigweed 250 g/ha B. signalgrass B. signalgrass Giant foxtail Giant foxtail Preemergence Preemergence Morningglory Morningglory Sugarbeets Blackgrass Velvetleaf Blackgrass Sugarbeets Velvetleaf Wild oats Wild oats Crabgrass Crabgrass Cocklebur Cocklebur Bedstraw Nutsedge Nutsedge Bedstraw Table B Soybean Wheat Rate

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	551		6		0	0	0	10	70	0	0	m	10	0	7	7	m	m		573		σ	0	~	0	0	σ	თ	0	0	m	6	0	7
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	546		0	œ	0	0	0	10	10	0	0	0	10	0	7	0	0	0		<b>269</b>		თ	0	თ	0	0	9	9	0	0	4	6	0	0
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	Rate 250 g/ha	nce	B. signalgrass		Ø				tail	ory			Redroot pigweed		κò	Ψį				Rate 250 g/ha	nce	B. signalgrass		κ				Giant foxtail	ory			Redroot pigweed		S
В	250	rge	mal	aw.	ras	bur		ass	fox	1gg1	зgе		ot p	пE	beet	tlea		bats	æ	250	rge	gnal	raw	gras	bur		rass	fox	nggl	dge		ot I	an	bet
Table B	te	Preem rgence	siç	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	dro	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	ıte	Preem rgence	Si	Bedstraw	Blackgrass	Cockl bur	Corn	Crabgrass	iant	Morningglory	Nutsedge	Rape	edro	Soybean	Sugarb ets
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COMPOUND
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6 - 8 0
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0 9 7 8 10 10
0 0 1 6 8 4

Redroot pigweed	0	0	7	0	0	m	7		10	6	6	7	ന	m	7	7						2
Soybean	0	0	0	0	0	0	0		ı	0	0	0	0	0	0	0						œ
Sugarbeets	0	0	0	0	0	0	0		10	9	0	0	0	0	0	0						6
Velvetleaf	0	0	0	0	0	0	0		œ	٣	9	0	0	0	0	ស						œ
Wheat	0	0	0	0	0	0	0	0	0	0	~	0	0	0	0	0	7	4	2	Ŋ	œ	9
Wild oats	0	0	0	0	0	0	0		œ	m	٣	7	0	0	0	m						σ
Table B								ပ	MPOU	Q												
Rate 250 g/ha	671	672	673 (	674 (	675 (	9 9 2 9	9 //9	78	9 6 2 9	9 089	681 6	682 6	83 6	684 6	685 6	9 98	87 6	89 69	1 6	92 6	693 6	94
Preemergence																						
B. signalgrass	7	9	7	œ	œ	팡	ო	0	0	0	0	7	4	4						2	0	9
Bedstraw	ı	0	4	•	10	ı	ı	ı		ı	ı	0	0	0						-	0	0
Blackgrass	œ	œ	6	თ	თ	7	0	0	0	0	Н	œ	7	7						07	0	0
Cocklebur	0	0	0	0	0	0	0	0	0	0	0	0	ö	0						0	0	0
Corn	٣	0	4	ស	9	m	0	0	0	0	0	0	0	0						0	0	-
Crabgrass	œ	10	10	6	9	9	9	0	0	٣	~	σ	σ	σ						01	0	6
Giant foxtail	10	10	10	10	10	10	œ	0	ო	4	9	10	σ	10						10	7	10
Morningglory	Ŋ	0	0	7	m	0	0	0	0	0	0	7	0	7	7	0	٣	ო	0	7	0	7
Nutsedge	9	0	7	വ	r	0	0	1	0	0	0	0	0	0						0	0	ı
Rape	0	7	7	Ŋ	7	ഹ	0	0	0	0	0	ო	0	0						۳	0	0
Redroot pigweed	10	7	10	10	10	ı	7	0	0	0	0	S	Ŋ	Н						œ	0	œ
Soybean	0	0	0	ស	0	0	0	0	0	0	0	0	0	0						0	0	0
Sugarbeets	6	7	٣	7	œ	ភ	0	0	0	0	0	ო	0	0						~	0	0
Velvetleaf	7	ო	m	œ	10	4	0	0	0	0	0	0	0	0						-	0	Н
Wheat	٣	0	0	œ	ភ	7	0	0	0	0	0	0	0	o						0	0	0
Wild oats	7	ហ	6	œ	7	m	0	0	0	0	0	7	0	7						10	0	٣
Table B								ິວ	MPOU	뎵												
Rate 250 g/ha	695	969	697	869	669	. 00/	701 7	702 7	03 7	704 7	706 7	7 707	08 7	60	710 7	7111	712 7	13 7	14 7	15 7	716 7	717
Preemergence																						
B. signalgrass	ហ	1	0	m	თ	<b>&amp;</b>	0	~	~		œ	6	0	0	œ	7		œ		0	0	7
Bedstraw	0	0	0	0	0	0	0	0	0		0	10	0	0	Ŋ	9		7		0	0	0
Blackgrass	9	7	N	7	10	<b>&amp;</b>	7	δ	9		10	10	٣	0	6	œ		6		6	0	10
Cocklebur	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0		0		0	0	0
Corn	0	0	0	0	80	m	0	0	0		0	7	0	0	0	0		0		7	0	m
Crabgrass	Q	6	4	œ	10	10	10	10	0		œ	σ	10	7	10	10		10		10	0	10
Giant foxtail	10	10	Ŋ	6	10	10	10	10	6	œ	7	10	8	7	10	10	10	10	10	10	0	10
Morningglory	0	0	4	0	2	0	0	0	H		7	4	0	0	0	ж		0		7	0	0

0 0	10 10 0	0 0	4 7 0	2 6 0		6 3 0	1 6 3 0 0 8 6 9 0 9	0 0 0 0 0	6 3 0 6 9 0 737 738 739 74	6 3 0 6 9 0 737 738 739 74	6 3 0 6 9 0 737 738 739 74 8 10 -	6 3 0 6 9 0 737 738 739 74 8 10 -	6 3 0 6 9 0 737 738 739 74 8 10 - 8 10 - 9 10 3	6 3 0 6 9 0 737 738 739 74 8 10 - 8 10 3 0 0 0	6 3 0 6 9 0 737 738 739 74 8 10 – 8 10 3 9 10 3 3 7 2	6 3 0 6 9 0 737 738 739 74 8 10 - 8 10 3 9 10 3 0 0 0 3 7 2	6 3 0 6 9 0 737 738 739 74 8 10 - 0 0 10 9 10 3 0 0 0 3 7 2 3 7 2 10 9 9	6 3 0 6 9 0 737 738 739 74 8 10 - 0 0 10 9 10 3 0 0 0 3 7 2 10 9 9	6 3 0 6 9 0 737 738 739 74 8 10 - 0 0 10 9 10 3 0 0 0 3 7 2 10 9 9 10 10 9	6 3 0 6 9 0 737 738 739 74 8 10 - 0 0 10 9 10 3 0 0 0 1 10 9 9 1 10 10 9 1 2 2 0 5 6 0	6 3 0 6 9 0 737 738 739 74 8 10 - 0 0 10 9 10 3 0 0 0 10 9 10 9 10 9 10 9 10 9 10 9 10	6 3 0 6 9 0 737 738 739 74 8 10 - 0 0 10 9 10 3 0 0 0 10 10 9 10 9	6 3 0 6 9 0 737 738 739 74 8 10 - 0 0 10 3 7 2 10 9 9 10 9 9 10 10 9 10 9 6 8 9 6 6 2	6 3 0 6 9 0 737 738 739 74 8 10 - 0 0 10 10 10 9 110 10 9 10 9	6 3 0 6 9 0 737 738 739 74 8 10 - 0 0 10 10 10 9 110 10 9 10 9	6 3 0 6 9 0 737 738 739 74 8 10 - 0 10 10 3 10 10 9 110 10 9 10 9	6 3 0 6 9 0 737 738 739 74 8 10 - 0 0 10 10 10 9 11 10 9 10 9 10 0 0 6 6 2 6 6 2 6 6 2 7 6 0 8 10 0	6 3 0 6 9 0 737 738 739 74 8 10 - 0 0 10 3 7 2 10 9 9 10 9 9 10 10 9 10 9 9 10 0 0 6 6 2 6 6 2 6 6 2 759 760 761 76	1 6 3 0 3 6 9 0 5 737 738 739 74 3 8 10 - 0 0 10 2 3 7 2 3 7 2 4 10 9 9 10 10 9 9 10 10 9 9 2 6 0 6 6 2 0 4 6 2 0 6 6 2 0 8 9 0 6 6 2 0 8 9 0 8 10 0	1 6 3 0 6 8 737 738 739 740 8 10 0 10 10 9 9 10 9 9 9 10 9 9 9 9 9 9	1 6 3 0 6 3 0 6 3 0 6 3 0 6 3 0 6 3 0 6 3 0 6 6 0 6 0	1 6 3 0 6 3 0 6 3 0 6 3 0 6 6 3 0 6 6 6 2 0 6 6 6 2 0 0 0 0 0 0 0 0 0 0	1 6 3 0 6 3 0 6 6 3 0 6 6 6 2 6 0 6 6 6 6 6 6 6 6 6 6 6 6 6	1 6 3 0 3 6 9 0 4 9 10 3 2 3 7 738 739 74 3 8 10 - 10 2 3 7 2 3 7 2 3 7 2 4 10 9 9 10 10 9 9 2 0 0 5 6 0 0 6 6 2 6 6 2 6 6 2 6 6 2 8 759 760 761 76 7 8 10 0 8 759 760 00 9 8 10 0 1 8 10 0
0 6	· œ	0	7	ო	0	က		35 73		σ	0	10	0	œ	10	10	~	0	œ	œ	0	9	m	ı	80		7 2 2		7	0	m	0	0	σ
0 1	- თ	0	œ	9	ω	თ		734 7		σ	0	Q	0	σ	σ	10	ო	0	വ	œ	0	ß	Ŋ	œ	10		, 95/		0	0	4	0	0	σ
οα	10	m	8	7	7	თ		733		œ	0	œ	0	0	9	Q	7	0	т	ស	0	0	0	0	8		755		0	0	0	0	0	0
1 0	υ	0	0	0	0	0		732		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		754		œ	0	Q	0	0	σ
00	1	0	0	~	0	0		730									0										753					0		
0 0	10	0	œ	ហ	7	σ		729									7										752					0		
0 %	10	0	4	S	Ŋ	æ		728									7									_	751					0		
0 -							Ę,	727									0									OUNI	750					0		
00							COMP	726									7									COMI	3 749					0		
00	υ	0	m	0	0	7		725																			748					0		
10	0	0	0	0	0	7		724									0										747					0		
0 0	1 (2)	0	m	0	0	ð		723									0										746					0		
0 6	9	~	7	S	Ø	10		722									7										745					0	_	_
00	0	0	0	0	~	0		721									7										744					0		
00	0	0	0	0	0	0		720		10	10	10	0	4	10	10	ı	ı	თ	10	0	œ	m	Ŋ	თ		743		4	0	σ	0	0	o,
0 0	9	0	m	7	0	9		719		7	0	σ	0	0	œ	œ	m	0	~	10	0	9	0	m	0		742		0	0	0	0	0	0
0 0	N.	0	0	0	0	0		718		7	0	Q	0	0	10	10	0	0	7	9	0	~	0	0	•		741		7	0	0	0	0	Ŋ
Nutsedge Rane	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 250 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 250 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass

Giant foxtail	თ	0	O	0	10	10				10	10	10	a	თ	0	6				10	œ	6
Morningglory	0	0	0	0	0	9					ഗ	0	0	7	0	0				0	0	0
Nutsedge	0	0	7	Ŋ	0	ı					0	ì	0	٣	0	0				0	0	0
Rape	0	0	σ	9	7	σ					7	ស	7	9	0	0				~	0	0
Redroot pigweed	0	0	9	Q	10	10	∞	10	7	10	10	10	თ	Q	0	0	7	œ	٣	6	0	m
Soybean	0	0	0	0	0	S					7	0	0	0	0	0				0	0	0
Sugarbe ts	0	0	4	7	4	7					S	m	-	m	0	0				m	0	4
Velvetl af	٣	0	m	0	4	7					œ	0	ı	m	0	0				0	0	0
Wheat	0	0	0	m	0	œ					Ŋ	0	٣	7	0	0				0	0	0
Wild oats	0	0	S	9	ω	10					10	7	80	œ	0	0				7	0	0
Table B									ဗ	0												
50 g/ha	763	764	765	992	767	772	773	774	775	176	777	778	780	. 064	791 7	92						
Preemergence																						
B. signalgrass	σ	6			1	0					1	1	œ	თ	0	δ						
Bedstraw	7	Ŋ			1						1	0	0	7	1	4						
Blackgrass	თ	œ			10						10	10	თ	თ	7	œ						
Cocklebur	0	0			0						0	0	7	10	0	0						
Corn	0	9			0						0	0	9	œ	0	4						
Crabgrass	10	10			10						10	10	10	10	10	10						
Giant foxtail	6	10			10						10	10	10	10	10	10						
Morningglory	0	0	0	m	0	0	0	0	0	7	-	0	0	7	0	0						
Nutsedge	1	0			0						~	9	0	0	0	0						
Rape	9	6			σ						0	m	7	9	٣	4						
Redroot pigweed	10	10			10						1	٣	9	6	ß	Q						
Soybean	0	m			7						0	-	~	0	ហ	0						
Sugarbe ts	m	2			<b>∞</b>						7	~	4	9	0	9						
Velvetleaf	-	2			7						0	0	m	7	0	m						
Wheat	S	1			Ŋ						٣	4	S	7	0	0						
Wild oats	9	9			6						œ	œ	4	വ	Ŋ	œ						
Table B									SOM	OUNDO												
Rate 125 g/ha	18 3	2	47 69	70	71 7	72 13	129 1	131 1/	146 16	165 166	6 180	181	182	183	184	185	186	187	189	190	191	
Pre-emergence																						
Barnyardgrass	7				0	0	c	0	0						0	0	0	0	0	0	0	
Ducksalad	0				0	0	ß	0	0						0	0	0	0	0	0	0	
Rice	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S. Flatsedge	0				0	0	2	m	0		_			_	0	0	0	0	0	0	0	

Table B Rate 125 d/ba	192 193	193	194	195	196	197	198	200 200	COMPOUND 201 202		203	204 2	0.5	206	207 2	80	210 2	211 2	2 2	214.2	2 2 2	9	
Pre-emergence																	ı	l	 	1	1	l	
Barnyardgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ducksalad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rice	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S. Flatsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Table B								O	OMPO														
Rate 125 g/ha	217 218	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234 2	35	236	237	238	
Pre-emergence																							
Barnyardgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ducksalad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rice	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S. Flatsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Table B								O	OMPO	S S													
Rate 125 g/ha	239 240	240	241	242	243	244	245	246	247	248	249	250 ;	251	252	253 ;	254	255	256	257	258	259 2	264	
Pre-emergence						-																	
Barnyardgrass	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ducksalad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rice	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S. Flatsedge	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Table B								Ö	OMPC														
Rate 125 g/ha	265	266	267	268	269	270	271	272	273	274	276	277	278	279	280	281	282	283	284	285	286	287	
Pr -emergence																							
Barnyardgrass	0	0		0	0		m	0	ヤ	0	9	~	0	0	0	0	~	ო	Н	0	0	0	
Ducksalad	0	0		0	0		0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	
Ric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S. Flatsedge	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Table B								Ö	COMPC	QND													
Rate 125 g/ha	288	288 289	290	291	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	
Pre-emergence																							
Barnyardgrass	4	0	4	4			0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	
Ducksalad	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rice	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S. Flatsedge	0	0	7	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Table B								Ĭ	COMPO	E S													

32	0	0	0	0		371	ļ	0	0	0	0		01		0	0	0	0		48		0	0	0			71		0	0	0	0		86
31 3.	0	0	0	0		370 3		0	0	0	0		95 4		0	0	0	0		47 4		0	0	0	0		70 4		0	0	0	0		96 4
0 3	0	0	0	0		0		0	0	0	0		3 3		0	0	0	0		16 4		0	0	0	0		69 4		0	0	0	0		95 4
9 33	_	_	0	_		36		_	0	_	0		2 39		0	0	0	0		5 44		0	0	0	0		8 46		0	0	0	0		4 4
32	_	Ŭ	Ŭ			368							39							44							46							49
328	0	0	0	0		367		0	0	0	0		391		0	0	0	0		444		0	0	0	0		467		J	0	J	0		493
327	0	0	0	0		366		0	0	0	0		390		ហ	0	1	0		443		0	0	0	0		466		0	0	0	0		492
326	0	0	0	0		365		0	0	0	0		389		0	0	1	0		442		0	0	0	0		465		0	0	0	0		490
325	0	0	0	0		358		0	0	0	9		388		0	0	0	0		441		0	0	0	0		463		0	0	0	0		489
324	0	0	0	0		354		0	0	0	0		387		0	0	0	0		439		0	0	0	0		462		0	0	0	0		488
323	0	0	0	0		353		0	0	0	~		385		0	0	0	0		438		0	0	0	0		461		0	0	0	0		487
322	٣	0	0	0		351		0	0	0	0		384		0	0	0	0		437		0	0	0	0		460		0	0	0	0		486
321	0	0	0	0		350		0	0	0	0		383		0	0	0	0		414		0	0	0	0		459		0	0	0	0		485
320	0	0	0	0	ON S	346		0	0	0	0	E S	382		0	0	0	0		411		œ	0	0	0	<b>QN</b>	458		0	0	0	0	<u>Q</u>	483
319	0	0	0	0	OMPO	341		œ	0	0	4	OMPO	381		0	0	0	0	OMPO	410		4	0	0	~	OMPO	457		0	0	0	0	OMPC	482
318	0	0	0	0	ŭ	340		9	0	0	0	Ü	380		0	0	0	0	ບ	409		7	0	0	0	O	456		0	0	0	0	u	480
317	0	0	0	0		339		œ	0	0	0		379		0	0	0	0		408		0	0	0	0		455		0	0	0	0		479
316	9	0	0	0		338		0	0	0	0		378		0	0	0	0		407		0	0	0	0		454		0	0	0	0		478
315	0	0	0	0		337		0	0	0	0		376		0	0	0	0		406		0	0	0	0		453		0	0	0	0		477
314	0	0	0	0		336		0	0	0	0		375		0	0	0	0		405		0	0	0	0		452		0	0	0	0		476
313	0	0	0	0		335		0	0	0	0		374		0	0	0	0		404		Q	-	0	0	•	451		0	0	0	0		474
12	0	0	0	0		334		0	0	0	0		373		0	0	0	0		403		Ť	0	0	0		450		0	0	0	0		473
311 3	0	0	0	0		333		0	0	0	0		372		0	0	0	0		402		വ	0	7	0		449		0	0	0	0		472
Rate 125 g/ha Pre-emergence	Barnyardgrass	alad		S. Flatsedge	æ	Rate 125 g/ha	Pre-emergence	Barnyardgrass	alad		S. Flatsedge	В	Rate 125 g/ha	Pre-emergence	Barnyardgrass	alad		S. Flatsedge	ø	Rate 125 g/ha	Pre-emergence	Barnyardgrass	alad		S. Flatsedge	щ	Rate 125 g/ha	Pre-emergence	Barnyardgrass	alad		S. Flatsedge	89	125 g/ha
Rate Pre-en	Barnye	Ducksalad	Rice	S. F1	Table B	Rate	Pre-en	Barnya	Ducksalad	Rice	S. F1	Table B	Rate	Pre-ei	Barny	Ducksalad	Rice	S. F1	Table	Rate	Pre-el	Barny	Ducksalad	Rice	S. FL	Table B	Rate	Pre-e	Barny	Ducksalad	Rice	S. F1	Table B	Rate

Pre-emergence																							
Barnyardgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ducksalad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rice	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S. Flatsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tabl B								ၓ	OMPOU	£													
Rate 125 g/ha	499	509	521	528	529	531	532	538 5	39 5	46	550 5	52 5	56 5	58 5	60 5	61 5	67 5	68 5	20	577	580	286	
Pre-emergence																							
Barnyardgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ducksalad	0	0	0	0	0	0	œ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rice	0	0	0	ì	ı	0	-	ŧ	0	•	0	ı	0		0	0	0	⊣	0	0	0	0	
S. Flatsedge	0	0	0	0	0	0	∞	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Table B								ၓ	OMPOU	E E													
Rate 125 g/ha	587	588	589	290	591	592	593	594	595	969	598 5	599 6	00	601 6	02	603	604 6	605	909	607	809	609	
Pre-emergence																							
Barnyardgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ducksalad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rice	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S. Flatsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Table B								ຽ	OMPO	QKS													
Rate 125 g/ha	610 611	611	612	613	614	615	919	617 (	618 (	619	620 (	621 (	622 6	623	624 (	625 (	627 (	628	629	630	631 (	632	
Pre-emergence																							
Barnyardgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	
Ducksalad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rice	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S. Flatsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Table B								Ū	OMPO	25													
Rate 125 g/ha	633	634	636	637	638	639	640	641	642	643	644 (	645	646 (	647 (	649 (	029	651	655	929	657	859	629	
Pre-emergence																							
Barnyardgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
Ducksalad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rice	0	0	•	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S. Flatsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Table B								U	0	QE S													
Rate 125 g/ha	99	660 661	662	663	664	999	999	667	899	671	674	675	919	219	678	619	680	681	692	694	695	969	
Pre-emergence																							

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0	0	0	0									24		٣	0	٣	Н	0	0	8	0	7	σ	0	0	7	0	0	ო	0	0	0	0		23
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0	0	0	0		5 7		0	0	0	0		19		0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	٣	0	0	0	0		48
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0	0	0	0		758		0	0	0	0		17		0	0	0	0	0	0	٣	0	7	7	0	0	0	0	0	7	0	0	0	0		46
0	0	0	0		41		0	0	0	0		16		0	0	0	0	0	0	0	0	0	Н	0	0	0	0	0	Н	0	0	0	0		45
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0	0	0	0	MPO	21		0	0	0	0	MPO	12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	)MP(	41
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Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Tabl B	Rate 125 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 125 g/ha	Postemergence	B. signalgrass	Barnyardgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Ducksalad	Giant foxtail	Morningglory	Nuts dge	Rape	Redroot pigweed	Rice	S. Flatsedge	Soybean	Sugarb ets	Velvetleaf	Wheat	Wild oats	Table B	Rate 125 g/ha
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Redroot pigweed	Rice	S. Flatsedge	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 125 g/ha Postemergence	B. signalgrass	Barnyardgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Ducksalad	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Rice	S. Flatsedge	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 125 g/ha	Postemergence	B. signalgrass	barnyardgrass

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Cocklebur	-	0	0	0	0	0	0	-	7	7	0	0		· c	, c	· c	· c	n C	۰ د	<b>v</b> C	4 (	<b>.</b>
Corn	-	0	0	0	ស	0	0	0	0	0	0	0	0	· c	· c	· c	> c	0 0	ם ני	<b>,</b>	4 0	> 0
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Ducksalad	0	0	0	0	0	ı	1	0	0	0	0		· c	· c	· c	, ,	+ 1	١ ،	. ,	_	1	•
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Nutsedge	0	0	0	7	7	0	0	0	0	0	0	0	0	0	0	0	٠ c	1 C	٠ ح	٠.	n C	p c
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Redroot pigweed	4	2	0	0	0	0	0	0	7	Н	,	0	0	0	0	0	· c	۳ ،	* 42	) c	ى د	<b>,</b>
Rice	0	0	0	0	0	ı	ı	0	0	0	0	0	0	0	0	0	<b>)</b>	, 1	) (	<b>,</b> ,	, ,	וכ
S. Flatsedge	0	0	0	0	0	ı	ı	0	S	0	0	٥	0	0	0	0	,	ŧ	1		,	
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Sugarbeets	7	m	٣	m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٠,	, c	, c	
Velvetleaf	-	-	0	4	m	0	7	0	0	0	0	0	0	0	0	0	· c	· (~	, ,	, ,	· c	
Wheat	m	0	0	9	9	0	0	0	0	0	-	0	0	0	0	, c	· c	. –		1 C	, ,	, ,
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Ducksalad	0	0		0	0	0	0	0	0	0	0	m	0	0	0	0	. 0		, c	, ,	; c	, c
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Nutsedge	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	~			, ,		٠ -
Rape	0	0	1	0	7	0	0	0	0	0	2	~	-	7	0	0	0	0		,		, ,
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Rice	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	c	0				
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Soybean	Sugarbeets	Velvetl af	Wheat	Wild oats	Table B	Rate 125 g/ha	Postemergence	B. signalgrass	Barnyardgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Ducksalad	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Rice	S. Flatsedge	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 125 g/ha	Postemergence	B. signalgrass	Barnyardgrass	Bedstraw	Blackgrass	Cocklebur

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Crabgrass Ducksalad Giant foxtail Morningglory Nutsedge Rape Redroot pigweed Rice S. Flatsedge Soybean Sugarbeets Velvetleaf Wheat Wild oats Table B Rate 125 g/ha Postemergence B. signalgrass Barnyardgrass Cocklebur Corn Crabgrass Cocklebur Corn Crabgrass Ducksalad Giant foxtail Morningglory Nutsedge Rape Redroot pigweed Rice S. Flatsedge Soybean Sugarbeets

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Wheat	0	0	0	0	0	0	0	0	0	0	c	c	<b>C</b>	٣	c	ŗ	c	ų	,	ď	•	(
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B. signalgrass	0	Ŋ	7	0	0	0	0	0	0	0	0	0	C	<b>c</b>	c	c	c	ç	o	-	•	•
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Bedstraw	m	0	m	œ	0	0	0	0	0	c	c	_	c	<b>C</b>	,	۰,	۰ ۱	י ו	1 4		1 6	1 (
Blackgrass	0	Q	Ŋ	8	0	0	0	0	· ~	· c	· c	· c	· c	<b>o</b> c	4 C	n c	n (	<b>1</b>	n (	<b>d</b> i (	<b>o</b> 6	ויכ
Cocklebur	0	0	0	0	0	0	0	· c	۰ ۵	۰ ۵		· c	· c	•	<b>-</b>	۰ -	<b>&gt;</b> -	۰ ،	ክ	<b>x</b> 0 c	<b>&gt;</b> (	- 0
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Crabgrass	0	œ	0	0	0	0	0	0	• •	· c	· c	· c	· c	•	• •	•	<b>&gt;</b> <	י כ		4 0	<b>-</b>	ժ+ ն
Ducksalad	1	1	i	1	ı	1	1	1	1 1	, 1	, ,	> 1	۱ د	<b>&gt;</b> i	)	>	>		ת	ro O	>	`
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Morningglory	~	m	7	4	e	0	7	~	00	, c-1	· c	۰ ۵	4	۰ د	۰ د	۰ د	ם נ	า <	0 6	٦ -	<b>-</b>	<b>x</b> 0 <
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Rape	0	0	0	0	0	0	0	0	~	~	c	· c	· c	· c	· c	· c	<b>,</b>	<b>o</b> c	> <	<b>-</b>	> 0	<b>-</b>
Redroot pigweed	7	0	0	7	0	0	0	0	m	0	0	0	0	0	0	0	ر د	<b>,</b>	> 4	ى د	<b>&gt;</b> <	<b>)</b>
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S. Flatsedge	1	ı	1	ı	ı	ı	1	1	1	ı	•	ı	ı	ı	1		' '	ı	l	ı	•	ı
Soybean	٣	m	~	m	0	0	0	~	٣	~	0	c	-	-	-	-, ا	- ا	ור	1 4	) <	1 6	ור
Sugarbeets	7	0	0	0	0	0	0	0	~	C	· c	· c	ı c	1 C	ı c	4 C	4 <	۹ د	י נ	# (	<b>&gt;</b> <	<b>n</b> (
Velvetleaf	0	0	0	0	0	0	0	0	~	2	0	0	· c	•	, <del>,</del>	·-	> ~	<b>.</b>	v <	<b>&gt;</b> c	<b>&gt;</b> <	v -
Wheat	0	ဖ	7	0	0	0	0	0	0	0	0	0	· c	· c	- ۱		4 0	ى د	# [	4 4	> <	<b>∜</b> L
Wild oats	0	~	0	0	0	0	0	0	0	0	0	0	0	· c	· c	· c	· c	۱ د	۰ ،	r <	۰ د	ם מ
Table B								O	OMPOUND	Q			,	•	,	,	,	>	4	>	>	<b>n</b>
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Postemergence															,	1	I	)	H	)	3	
B. signalgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	C	c	c	c	c	c	<	<	<
Barnyardgrass	1	1	1	ı	1	ı	t	•	ı	. 1	ı	• 1	1	) 1	<b>)</b>	•	•	>	>	>	>	>
Bedstraw	7	0	0	0	0	9	0	0	4	C	c	c	٧	c	-	•	· c		ı		1 0	
Blackgrass	7	0	0	0	0	4	7	c	C	~	· c	· c	יע	· c	٠ .	c	<b>,</b>	0	0 (	۷ •	י כ	<b>-</b>
Cocklebur	0	0	0	0	0	0	0	0	0		· c	· c	۰ د	۰ د	· c	<b>,</b> c	<b>.</b>	> <	<b>v</b> <	<b>#</b> C	n (	<b>&gt;</b>
Corn	0	0	0	0	0	0	0	0	0	· c	• •	•	<b>&gt;</b> C	1 0	> <	<b>•</b> •	<b>,</b>	> <	> 0	> 0	> 0	ه د
Crabgrass	0	0	0	0	0	0	0	0	0	0	· c	· c	· ~	· c	· -	> <	<b>,</b>	<b>&gt;</b> <	<b>-</b>	> -	<b>-</b>	<b>&gt;</b> (
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Giant foxtail	0	0	0	0	0	~	7	C	c	۳	c	c		c	c	c	•	(	•	•	,	,
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Nutsedge	0	0	0	0	0	0	0	0	0	0	0	· c	· c	۰ -	1 ⊂	# C	# 0	v C	) C	o 0	4 (	<b>⊣</b>
Rape	0	0	0	0	7	0	0	0	0	0	0	~ ~	· c	· c	· c	, c	<b>,</b>	0	> <	<b>&gt;</b> c	ى د	<b>&gt;</b> c
Redroot pigweed	7	0	0	0	0	0	0	0	8	0		<u>س</u>	۰ ۵	~ د	۰ د	, c	· c	0	> <	<b>&gt;</b> c	י ר	<b>5</b> 0
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S. Flatsedge	ı	•	J	ı	1	ı	1	ı	ı	1	ı	•			1 (		,	ı	•	ı	ı	ı
Soybean	П	0	0	ო	~	~	1	0	-	v	~	~	7	,	- ۱	יי	٠,	1 0		، ا	1 6	1 (
Sugarbeets	0	0	0	0	0	0	0	c	c	· c	, 0	, c	, ,	n	+ <	n (	n (	> 0	າ ເ	n (	- (	7
Velvetleaf	0	0	0	0	0	0	0	0	• •	· c	; C	· c	<b>,</b> c	<b>-</b>	<b>o</b> c	> <	<b>&gt;</b> -	<b>-</b>	<b>&gt;</b> <	> 0	<b>-</b>	<b>o</b> 9
Wheat	0	0	0	0	0	0	0	0	0	4	0	· c	· -	~ ۱	· c	<b>-</b>	4 C	<b>&gt;</b> <	<b>&gt;</b> c	<b>&gt;</b> c	<b>э</b> и	<b>&gt;</b> c
Wild oats	0	0	0	0	0	0	0	0	0	0	0	0	0	0	· c	· c	· c	<b>&gt;</b>	<b>-</b>	<b>o</b> c	n c	<b>&gt;</b> c
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B. signalgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c	C	c	~	c
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Bedstraw	0	7	0	9	0	0	0	0	9	0	0	0	1	ſ	-	ľ	Ľ	، ر	· a		1 0	1 0
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Cocklebur	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	,	ı c	1 0	٠.	<b>-</b>	n -	<b>o</b> c
Corn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	; C	· c	· c	+ =	<b>&gt;</b>	4 <	<b>o</b> c
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Nutsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ى ،	· c	, c	, c
Rape	0	0	0	m	0	0	0	0	7	0	0	0	0	m	m	ď	c	~	· c	,	, ,	· c
Redroot pigweed	0	4	0	S	0	0	0	0	7	0	0	0	7	9	4	4	· c	~ ا	, v	? C	1 L	<b>o</b> c
Rice	1	ı	ı	ı	1	i	ı	ſ	ı	ı	ı	ı	ı		· 1	۱ ۱	• 1	) (	<b>)</b>	•	1	>
S. Flatsedge	ı	;	t	1	ı	•	1	1	,	1	ı	,	ı	1	1	•		ı 1		1 1	ı	
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Sugarbeets	0	0	0	7	0	0	0	0	7	0	0	0	0	9	۰ ۵	~,	۱ ۸	10	n C	4 C	n C	<b>v</b> c
Velvetleaf	0	0	0	0	0	0	0	0	-	0	0	0	-	0	0	· c		3 C	> 4	, ,	<b>o</b> c	<b>&gt;</b> C
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	'n	יעי	0	י ני	<b>,</b> c
Wild oats	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	, w	0	) (r	, ,
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Redroot pigweed	0	σ							0	0	0	0	0	0	m	0	10	, M	0 0	4 40	<b>.</b>	۰ د	- α	
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Sugarbeets	0	_							7	0	0	0	0	0	Н	0	7	۳.	10	-	· c	· c	a	
Velvetleaf	0	9							0	0	0	0	0	0	4	0	10	, 4	2 -	4 (	· c	ء د	0 [	
Wheat	0	4							0	0	0	0	0	0	0	0	5	0	· w	۰ ۵	· c	ء د	٠ ٧	
Wild oats	0	σ							m	0	0	0	0	7	٣	0	σ	σ	9	٠,	· c		۲ (	
Table B										COM	OUND	_			,	,	,	,	, •	1	>	>	2	
Rate 125 g/ha	114	115	11	9	17 ]	118	119	12	0 12	1 122	2 123	124	125	126	127	128	129	130	131	132	133	134	135	
Fremeryence B. signalgrass	0	~			σ	C	1						•	•	•	c	(	•				•	•	
Bedstraw	0	0			· c	C							0	<b>o</b> c	> <	<b>&gt;</b> C	9 (	אינ				~ ~	۰ د	
Blackgrass	00	. 0			α	· ^	OC						<b>&gt;</b> C	<b>&gt;</b> c	> 0	> 0	> 0	<b>&gt;</b> (				<b>o</b> (	0	
Cocklebur	0	0		0	0	0	0	, 0			, ,	) I	, c	•	<b>o</b> c	<b>&gt;</b> C	> 0	א כ	2 0		<b>~</b> ~	<b>-</b>	<b>5</b>	
Corn	0	ی			~	0	0						· C	O C	) C	· C	•	<b>۰</b>				<b>&gt;</b> c	٥ د	
Crabgrass	_	4			10	Ø							0	0	· C	0	7 (	י מ				<b>9</b>	9	
Giant foxtail	6	σ			10	10	10						0	0	0	0		י ס				0 0	<b>o</b> c	
Morningglory	0	ی			0	0	7						0	0	0	0	0	0				٠. ٥	o c	
Nutsedge	0	J			0	0	O						0	0	0	0	0	0				,	· c	
Rape	m	ی			10	0	Q						0	0	0	0	0	0				,	· c	
Redroot pigweed	œ	41			10	0	10						0	0	0	0	C)	10				0	· ~	
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Sugarbeets	9	J			œ	0	4						0	0	0	0	£	9				· ~	0	
Velvetleaf	7	J			œ	0	4						0	0	0	0	0	00				0	0	
Wheat	0	ں			∢	0	0						0	0	0	0	0	m				C	C	
Wild oats	~	J		7	9	<b>~</b> -1	Φ						0	0	0	0	ß	∞				0	0	
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Rate 125 g/ha	136	137	13	8 1	39	140	141	142	7	43 144	145	146	147	148	149	150	151	152	153	154	155	156	157	
Preemergence																							t	
B. signalgrass	m	μ,			~	0	ی						7	'n	0	0	1		0			C	C	
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Blackgrass	4	0		6	9	0	0		0	5	1 1	. 10	œ	4	0	0	6					· c	· c	
Cocklebur	0	J			0	0	0						0	0	0	0						· c	0	
Corn	0	J			0	0	ی						7	0	0	0	0					· c	· c	
Crabgrass	4	ĭ			10	9	J						œ	œ	0	-	10	0	0		-	7	2 0	

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000	00	• •	0	C	0	0	•	175	•	c	· ~	· C	· c	0	· •	7	0	0	0	0	0	c	C	· C	· c	•	197		0	· c	· c	0
000	00	0	0	0	0	0	•	174		c	0	· c	2 0	0	· œ	9	0	0	0	9	0	ĸ	0	C	· c	•	196		0	0	· c	0
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900	00	0	0	0	0	7	COMP	166		0	0	0	0	0	4	Ω.	0	0	0	0	0	0	0	0	٥	COMP	188		0	0	0	0
600							_	165		Ą	-	m	0	0	7	7	0	0	0	0	0	4	Н	0	4		187		0	0	0	0
400								164					0														186		0	0	٥	0
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Giant foxtail Morningglory Nutsedge	kape Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 125 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 125 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur

οr	, w	0	0	0	0	0	0	0	0	~		24		m	0	7	0	0	2	7	0	1	0	0	0	0	0	0	0		46		7	0
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Corn	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 125 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 125 g/ha	Preemergence	B. signalgrass	Bedstraw

Blackgrass	10	10	ß	0	0	0	0	9	~	0	0	7	0	0	~	0	1 9	0	0	-		ıo
Cocklebur	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0		~	0
Corn	m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					٥
Crabgrass	10	6	10	0	0	Η	0	7	9	0	0	٣	0	9	7	4	7 1					8
Giant foxtail	10	10	10	9	0	7	0	œ	7	0	0	7	0	9	0.	5	0	0				0
Morningglory	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0
Nutsedge	7	١	0	0	0	0	0	0	ı		ı			0	0	,	0					,
Rape	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0
Redroot pigweed	7	0	2	0	0	0	0	0	9	0	0	0	0	0	0	0	0 1			Н		0
Soybean	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			_		
Sugarbeets	~	m	ო	0	0	0	0	0	0	0	0	0	0	0	0	0	0					н
Velvetleaf	ß	ស	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S			_		0
Wheat	9	œ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			_		0
Wild oats	7	ო	0	0	0	0	0	0	_	0	0	0	0	0	0	0	Z.			_		m
Table B								ខ	MPOU	£												
25 g/ha	247	248	249	250	251	252 2	53 2	54 2	55 2	56 2	57 25	58 25	9 2	60 20	61 20	62 26	3 26	4 26	5 26	9 26.	7 26	œ
Preemergence																						
B. signalgrass	0	0	0	0	٣	0	0	0	7	0	0	4	2	0	0	0	0	0	0	0	0	0
Bedstraw	0	0	ı	0	0	0	0	0	0	0	0		0	0	,	0	0	0	0	<b>س</b>	0	0
Blackgrass	0	0	0	0	œ	7	0	0	10	0	0		10	0	0	0	0	0	•	œ	7	0
Cocklebur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Corn	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0
Crabgrass	0	0	0	4	7	7	0	0	٣	~	7	_	4	7	m	7	0	7	7	~1	0	0
Giant foxtail	0	0	0	<b>&amp;</b>	10	σ	0	٣	0	വ	9	6	0	7	œ	٣	6	7	<b>∞</b>	4	8	0
Morningglory	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nutsedge	1	0	0	•	ı	ı	1	0		ı	0	,	0	0	0	0	0	ı	,	0	0	0
Rape	0	0	0	0	9	0	0	0	0	0	0	<b>~</b>	0	0	0	0	0	0	0	0	0	0
Redroot pigweed	0	0	0	က	Ŋ	0	0	0	7	0	0	(1	0	0	0	0	0	0	0	0	ო	0
Soybean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugarbeets	0	0	0	٥	10	٣	0	~	ო	0	0	~	0	0	0	0	0	0	0	Ŋ	0	0
Velvetleaf	0	0	0	0	4	0	0	0	0	0	0	ഹ	~	0	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0
Wild oats	0	0	0	0	9	0	0	0	7	0	0	4	~	0	0	0	0	4	0	~	0	0
Table B								႘	OMPOU	2												
Rate 125 g/ha	269	270	271	272	273	274	276	277 2	78 2	279 2	80 2	81 2	82 2	83 2	84 2	85 2	86 21	87 28	88 28	89 29	0 2	91
Preemergence																						

B. signalgraes 6 6 0 8 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0		œ	· c	•	<b>o</b> 0	<b>-</b>	א כ	0 0	<b>o</b> c	· c	) C	<b>o</b> c	· c	· c	· c	>	313	1	c	) I	c	· c	· c	· c	· c	· c	· c	· c	· c	· c	· c	· c	· c	•
Tasks 6 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	' (	'8	C	•	י כ	<b>1</b>	n C	۱ د	<b>C</b>	, ,	۰ د	ים כ	) C	· c	7	۲	312	} <del>i</del>	0	· C	· C	· C	· C	0	· C	· c	• =	0	• -	• =	· C	· c	0	•
Tasks 6 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•	σ		•	o ر	٠ <del>(</del>	2 0	· c	α	v	· c	v	v	· ~	a ec	•	311	i i	C	· c	· c	0	0	· c	· c	0	· c	0	· c	· c	· c	· c	· c	•
Tasks 6 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•	~	· C	, ,	· ·	4 0	n C	· C	· c	· c	· c	· c	0	· c	۰ ۸	3	0	,	4	,	2 (	2	· c	, TU	10	9	0	9	10,	6	7	. اس	~	•
Tass 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•	10	c	· c	•	J 6	2 0	v	ο α	· œ	9	ی د	7	7	α	)	60	1	_	· c	· c	0	0	-	6	0	0	0	0	0	0	0	0	•
Tass 6 0 8 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•	0	C	· c	۰ د	٦ د	9 0	· c	· c	0	0	· c	0	0	· c	•	80		c	· c	· c	0	0	0	0	0	0	0	c	0	0	0	0	•
Table 6 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•	4	0	· c	a	0	۰ ۵	0	· c	~ ~	0	0	~ ~	0	0	•	0.2		0	0	· c	0	0	0	00	0	0	0	0	0	0	0	0	•
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rass         6         0         8         0         0         7         9         0         0           2         0         10         0 <td>c</td> <td>0</td> <td>0</td> <td>0</td> <td>· c</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>02</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>9</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>,</td>	c	0	0	0	· c		0	0	0	0	0	0	0	0	0		02		0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	,
rass 6 0 8 0 0 0 0 0 7 9 0 0 0 0 0 0 0 0 0 0 0 0 0	_	0	ı	0	C	. ~	0	1	0	0	0	0	0	0	0	S	01		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	•
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rass         6         0         8         0	σ	6	0	0	4	10	0	0	↔	0	0	-	Н	0	7	ဗ	66		6	10	10	0	0	9	10	7	0	œ	10	0	œ	7	7	ľ
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Cocklebur Corn Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	25 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rap	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 125 g/ha	Preemergence	B. signalgrass

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Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleat	Wheat	Wild oats	Table B	Rate 125 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	_	kar 125 g/na

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Table B	Rate 125 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 62 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 62 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 62 g/ha	Pre-emergence

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Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 62 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 62 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Tabl B	Rate 62 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 62 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge	Table B	Rate 62 g/ha	Pre-emergence Barnyardgrass

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Ducksalad	>	>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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S. Flatsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Table B								ប	OMPOU	O.E.												
Rate 62 g/ha	391	392	393	394	395	401	402	403 4	404 4	405 4	406 4	407	408 4	409	410 4	411 4	414 4	437 4	438	439 '	441	442
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Barnyardgrass	>	>	>	>	>	>	Λ	7	4	)	0	0	0	-	0	0	0	0	0	0	0	0
Ducksalad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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S. Flatsedge	0	0	0	4	0	0	0	0	0	0	0	0	0	0	m	0	0	0	0	0	0	0
Tabl B								ប	OMPOU	S.												
62 g/ha	443	444	445	446	449	450	451 4	452 4	453 4	454 4	455 4	456	457 4	458	459	460 4	461	462	463	465	466	467
Pre-emergence																						
Barnyardgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ducksalad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S. Flatsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ø								ŭ	OMPO	£												
62 g/ha	468	469	470	471	472	473	474	476	477 4	478	479 4	480	482	483 '	485 4	486	487	488	489	490	492	493
Pre-emergence																						
Barnyardgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ducksalad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S. Flatsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Table B								Ũ	OMPO	QND												
Rate 62 g/ha	494	495	496	498	499	509	521	528	529	531	532	238	539	546	550	552	256	558	260	561	267	568
Pr - m rgence																						
Barnyardgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ducksalad	0	0	0	0	0	0	0	0	0	0	œ	0	0	0	0	0	0	0	0	0	0	0
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S. Flatsedge	0	0	0	0	0	0	0	0	0	0	Q	0	0	0	0	0	0	0	0	0	0	0
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Pre-emergence																						
Barnyardgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Barnyardgrass

594 01110061900011 593 592 591 590 0000100001 589 588 000001000001 586 585 584 582 581 578 579 580 COMPOUND 2000 577 576 575 574 573 572 571 Redroot pigweed Redroot pigweed 62 g/ha . signalgrass Postemergence Barnyardgrass Giant foxtail Giant foxtail S. Flatsedge Morningglory Morningglory Blackgrass Blackgrass Sugarbeets Velvetleaf Wild oats Crabgrass **Jucksalad** Cocklebur Crabgrass Ducksalad Cocklebur Nutsedge Bedstraw Nutsedge Bedstraw Soybean rable B Wheat Rate Rice

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Sugarbeets	0	0	0	0	0	0	0	0	0	0	٣	0	0	0	0					0	0	
Velvetleaf	0	0	0	0	0	0	0	0	0	0	۳	0	0	3	0	0	0	0 0	0	0	0	
Wheat	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0					0	0	
Wild oats	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0	
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Barnyardgrass	ı	ı	1	ı	1	ı	ı	1	1	1	1		ı			1	1			1	1	
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Cocklebur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				0	
Corn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	
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Giant foxtail	œ	0	0	7	7	0	7	0	0	9	2	9	œ	<b>&amp;</b>	7	2					0	
Morningglory	Н	0	0	Н	0	0	0	ı	9	9	0	<b>&amp;</b>	<b>∞</b>	7	ഹ	7					-	
Nutsedg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	
Rape	0	0	0	0	0	0	0	0	ı	0	н	0	0	0	0	0	0	0			0	
Redroot pigweed	0	0	0	0	7	0	0	0	0	0	٣	0	0	0	0	_			0		0	
Rice	1	ı	1	1	í	ı	ı	ı	ı	ı	1		1	1	ı	ı	ı	1		1	1	
S. Flatsedge	ŀ	1	1	•	1	1	i	ı	ı	ı	1	ı	,	ı		1	1					
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Sugarbeets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	
Velvetleaf	7	0	0	0	0	0	0	0	0	0	0	က	0	0	7	0	0					
Wheat	0	0	0	0	0	0	0	н	0	0	0	0	0	0	0	0	0				0	
Wild oats	0	0	0	0	0	0	0	7	0	0	က	0	0	0	0	-	0			_	0	
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Postemergence																						
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Barnyardgrass	ı	1	ŧ	J	1	ı	1	ı	ı	ı	ı	1	ı		ı	ı	ı	i		1	1	
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Ducksalad	Giant fortail	Morningglory	Nutsedg	Rape	Redroot pigweed	Rice	S. Flatsedge	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 62 g/ha	Postemergence	B. signalgrass	Barnyardgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Ducksalad	Giant foxtail	Morningglory	Nutsedg	Rape	Redroot pigweed	Rice	S. Flatsedge	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats
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28		0	0	0	i	0	٣	~	0	0	0	0	0	0	0	0	0		28		0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		23		0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	,	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		26		0	0	0	0	0	0	0	0	0	0	0	0	0	0
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4		0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0		43		0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Table B	Preemergence	S	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtai	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf
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œ	'n	0	α	S C	131		7	•	10	0	0	7	10	ო	0	∞	7	~	7	7	7	10	<b>B</b> B	153		٥	0	0	0	0	0	0	0	0	0
m	٣	0	6	OMPO	130		9	0	ıO	0	ო	9	7	0	0	4	9	0	7	Ŋ	~	7	OMPO	152		0	0	0	0	0	0	0	0	0	0
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0	0	0	0		122		0	0	0	0	0	4	7	0	0	0	0	0	0	0	0	0		144		0	0	0	•	0	4	m	0	0	0
Sugarbeets	V lv tleaf	Wheat	Wild oats	Table B	Rate 62 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	•	щ	Rate 62 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape

Bodroot niminood	<	c	5	4	r	•	_	6	c	c	u	c	c	c	c	<	c	c	c		c	•
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Sugarbeets	0	0	ω	~	4	0	0	· ~	0	0	0	0	0	0	0	0	0	0	0	0	0	, 0
Velvetleaf	0	0	7	m	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wheat	0	0	7	Ŋ	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wild oats	0	0	σ	7	9	0	0	œ	0	0	0	0	0	0	0	0	0	0	0	٣	0	4
Table B								ខ	MPOU	g												
62 g/ha	166	167	168	169	170	171	172 1	.73 1	74 1	75 1	77 1	.78	79 1	180	181	182	183 1	184 1	185	. 981	187	188
~																						
B. signalgrass	0	7	0	7	7	0	7	0	0	0	0	9	7	0	0	0	0	ស	0	0	0	0
Bedstraw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blackgrass	0	0	0	٣	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cocklebur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Corn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crabgrass	4	7	0	æ	∞	~	7	~	~	Ŋ	⊣	0	9	0	0	0	0	0	7	~	0	0
Giant foxtail	٣	œ	9	10	Q	Ŋ	ω	9	œ	ς.	m	7	9	0	0	0	0	0	0	Ŋ	0	0
Morningglory	0	0	0	0	0	Ó	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nutsedge	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ı	0	0	0
Rape	0	0	0	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Redroot pigweed	0	0	0	9	10	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
Soybean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugarbeets	0	0	0	0	7	0	0	0	m	0	0	0	0	0	0	0	0	0	0	0	0	0
Velvetleaf	0	0	0	7	٣	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	ഹ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wild oats	0	0	0	æ	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Table B								ຽ	0	E												
Rate 62 g/ha	189	190	191	192	193	194	195	196 1	197 1	198 1	199	200	201	202	203	204	205	206	207	208	210	211
Preemergence																						
B. signalgrass	m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bedstraw	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Blackgrass	-1	0	0	ഹ	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	9
Cocklebur	•	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Corn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crabgrass	0	0	0	7	•	4	m	0	0	0	9	0	0	ო	0	9	0	0	0	4	0	0
Giant foxtail	0	0	٣	œ	7	m	ო	0	0	0	7	0	7	~	0	7	0	0	٣	7	0	ო
Morningglory	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

10000	0 0 233	0000	00000	000000	0 0 256	00000
00000	232	0070	00000	000000	0 0 0 255	00000
00000	0 0 231	0000	0000	000000	0 0 254	00000
00000	230	0000	00100	00000	0 0 253	00000
00000	0 0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0000	0000	000000	0 0 252	00000
100000	0 0 228	0000	00010	000000	0 0 251	3000m
000000	227	0000	00400	0000000	0 0 7 250	000000
00000	0 0 226	100	00000	10000	6 1 249	00000
00000	0 0 225	4070	00000	709004	5 4 248	00000
00000	0 0 224	0000	00000	000000	0 0 746	00100
00000	0 0 223	0000	0470	000000	245	100 m 6
000040	0 0 222	0000	0000	10000	0 0 244	00000
00000	22 22	0.00	00000	000000	6 0 3 2 OMPOUND 242 243	408077
00000	0 0 COMPC 220	C 0 8 0	0000	140084	6 3 242	909909
00000	219	4470	0 2 2 0	1000mm	3 241 241	30001
100000	0 0 218	0080	0400	100000	0 5 240	000000
000000	0 0 217	0000	0 0 0 0	000,000	0 0 239	000001
00000	0 0 216	0000	0000	00000	0 0 238	00000
00000	0 0 215	0040	0 m m 0	004000	0 0 237	00000
00000	0 - 214	0000	0000	00000	0 0 236	00000
00000	0 0 213	0000	0000	00000	0 0 235	00000
00000	0 0 212	0040	0000	000000	0 0 234	00000
Nutsedg Rape Redroot pigweed Soybean Sugarbeets Velvetleaf	Wheat Wild oats Table B Rate 62 g/ha Preemergence	B. signalgrass Bedstraw Blackgrass Cocklebur	Corn Crabgrass Giant foxtail Morningglory	Nutsedge Rape Redroot pigweed Soybean Sugarbeets Velvetleaf	Wheat Wild oats Table B Rate 62 g/ha Preemergence	B. signalgrass Bedstraw Blackgrass Cocklebur Corn

Giant foxtail	0	0	7	0	വ	4	ស	10		10	0	თ	ထ	0	0	æ	æ		0	æ -		_
Morningglory	0	0	0	0	0	0	0	0		7	0	0	0	0	0	0	0	•	0		0	_
Nutsedge	ı	1	ı	,	0	0	t	1		0	0	1	,	0	0	1	ı					
Rape	0	0	0	0	0	0	0	0		0	0	٣	0	0	0	0	0					_
Redroot pigweed	0	0	0	0	0	0	0	0	σ	9	0	æ	0	0	0	0	0	0	0 0	0	0	_
Soybean	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0					_
Sugarbeets	0	0	0	0	0	0	0	0		7	0	m	0	0	0	0	9					_
Velvetl af	0	0	0	0	0	0	0	7		4	0	7	0	0	0	0	0					_
Wheat	0	0	0	0	0	0	0	0		2	0	ဖ	0	0	0	0	0					_
Wild oats	0	0	0	0	0	0	0	٣		m	0	m	7	0	0	0	0					_
Table B								ខ	MPOU	£												
Rate 62 g/ha	257	258	259	260	261	262 2	63 2	64 2	65 2	66 2	67 20	68 2	69 2	70 2	71 2	72 27	3 27	4 27	6 277	278	281	
Preemergence																						
B. signalgrass	0	0	7	0	0	0	0	0	0	0	0	0	0	0	œ	0	0		4		O	_
Bedstraw	0	0	7	0	1	0	0	0	0	0	0	0	0	0	٣	0	0	0				0
Blackgrass	0	9	~	0	0	0	0	0	0	œ	0	0	0	0	æ	0	0					_
Cockl bur	0	0	0	0	0	.0	0	0	0	0	0	0	0	0	0	0	0					
Corn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					_
Crabgrass	0	m	4	0	~	0	0	0	-	0	~	0	0	0	٣	0	~					٥,
Giant foxtail	٣	œ	9	m	œ	0	7	7	ø	0	œ	0	٣	0	œ	7	7		-1			_
Morningglory	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0		0 0	0		_
Nutsedge	ı	1	0	0	1	0	0	ı	0	,	0	0	0	0	0	0	ı					_
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0			,		_
Redroot pigweed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٣	0	0					_
Soybean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					_
Sugarbeets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ŋ	0	0					_
Velvetleaf	0	7	7	0	0	0	0	0	0	0	0	0	0	0	~	0	0			0		_
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			0
Wild oats	0	7	7	0	0	0	0	7	0	0	0	0	0	0	7	0	0		0			0
Table B								႘	OMPOU	ON												
Rate 62 g/ha	282	283	284	285	286	287	288 2	89 2	90 2	91 2	92 2	93 2	94 2	95 2	96 2	97 2	98 2	99 30	0 301	1 303	30	4
Preemergence																						
B. signalgrass	0	9	വ	7	0	9	0	7	0	0	0	7	0	9	0	0	0	9				0
Bedstraw	0	0	0	0	0	σ	0	0	0	0	0	0	0	0	0	ı	1	10				٥
Blackgrass	0	7	0	0	0	10	0	œ	7	0	0	7	0	S	0	0	0	σ	0	0		0
Cocklebur	•	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_			,

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0 m 0 0 0	0000	0 0 327	010	1000	010000	000	352 2 0
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00000	0000	0 0	000	0000	000000	000	350 0
00000	0000	0 0 324	000	0000	000000	000	349
00000	10000	323	000	0000	000000	000	348
00000	0000	322	000	00019	000000	000	345 0 0
000010	0000	0 0 321	00 m	0004	000000	000	344 0
00000	0000	320	000	00000	000000	000	343
000000	m000	0 2 319	000	0000	00000	000	342 0 0
017000	0000	0 0 318	010	0000	000000	000	341
0 1 6 0 0 0	0004	2 1 317	W O W	1000	100001	2 + 1	340
00000	0000	0 0 316	<b>600</b>	0000	000400	004	339 0
008000	0000	0 0 0 315	004	7200	010000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	338
0 4 8 0 0 0	0000	0 0 314	000	0016	000000	O O OMPC	337
10 10 0	0 0 0 m	1 7 313	000	0000	000000	300°	336 0 0
0 0 0 2 1 0	0000	0 0 312	000	0000	000000	000	335 0 0
0 10 0 4	90 90 0	9 8 311	0,00	0000	000000	200	334 0 0
000000	0000	310	4 10	0 0 0 1 0 1 0 0	0000000	N (1) (0)	333 0 0
048000	0000	309	000	0005	000000	000	332 0 0
04000	0000	308	000	0000	000000	000	330
00000	0000	307	000	0009	000000	000	329 0 0
018000	40000	306	000	0007	000000	000	328 0 0
Corn Crabgrass Giant foxtail Morningglory Nutsedge Rape	Redroot pigweed Soybean Sugarbeets Velvetleaf	wild oats Table B Rate 62 g/ha Preemergence	Bedstraw Blackgrass	Cocklebur Corn Crabgrass Giant foxtail	Morningglory Nutsedge Rape Redroot pigweed Soybean Sugarbeets	velvetlear Wheat Wild oats Table B	Rate 62 g/ha Preemergence B. signalgrass Bedstraw

Blackgrass	0	0	0	0	0	0	0	0	0	0	0	0	0		7	0	0					_
Cocklebur	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_
Corn	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0					_
Crabgrass	0	0	0	0	0	0	0	0	0	0	0	0	7		9	0	0					•
Giant foxtail	0	0	0	0	0	0	7	0	0	0	-	œ	σ		01	0	0		•		7	_
Morningglory	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0					0
Nutsedge	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0					_
Rap	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0					0
Redroot pigweed	0	0	0	0	0	0	0	0	0	0	0	0	0		01	0	0					
Soybean	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	ı					0
Sugarbeets	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0					~
Velvetleaf	0	0	0	0	0	0	0	0	0	0	0	0	0		വ	0	0					~
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0					0
Wild oats	0	0	0	0	0	0	0	0	0	0	0	0	0		7	0	0					က
Table B								ප	MPOU	£												
Rate 62 g/ha	353	354	355	356	357	358 3	59 3	60 3	61 3	62 3(	63 3(	64 30	67 3	68 3	69 3.	70 3′	71 37	2 37	3 37	4 37	5 37	9
Preemergence						-																
B. signalgrass	0	-	0	0	-	٦	0	Ŋ	٣	4	m				0						0	0
Bedstraw	0	0	0	0	10	0	0	,	0	σ	თ			0	,							
Blackgrass	7	٣	7	ഗ	7	4	0	0	٣	σ	œ			œ	0							0
Cocklebur	0	0	0	ı	0	0	0	0	0	0	0			0	0							٥
Corn	0	0	0	0	0	0	0	0	0	0	0			٣	0							0
Crabgrass	7	9	4	7	σ	δ	0	σ	~	Ŋ	m			10	5							0
Giant foxtail	6	10	10	10	10	10	0	10	7	10	,	m	10	10	œ	6	10	10	œ	8	10	0
Morningglory	0	0	0	0	0	0	0	0	0	0	0			0	0							0
Nutsedge	0	0	0	0	0	0	0	0	0	0	0			0	0							0
Rape	0	0	0	0	0	0	0	0	7	0	0			0	0							0
Redroot pigweed	7	ഹ	1	0	7	7	0	2	_	œ	7			10	0							0
Soybean	0	0	0	0	0	0	0	0	0	0	0			0	0							0
Sugarbeets	0	0	0	0	7	0	0	7	0	ഹ	0			9	0							0
Velvetleaf	0	-	0	<b>-</b>	4	ᠬ	0	m	0	7				4	0							0
Wheat	0	0	0	0	4	0	0	m	0	7	m		0	0	0							0
Wild oats	0	0	0	Ŋ	6	Ŧ	0	m	7	7	2		0	4	0							0
Table B								ၓ	MPOU	g												
Rate 62 g/ha	378	379	380	381	382	383	384	385	187 3	88 3	89 3	90 3	91 3	92 3	93 3	94 3	95 3	96 39	7 39	8 4	00 401	П
Preemergence																						

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æ	, ,	0	C	10	10	2	· c	~	, α	0	· c	· c	· c	,	4	422	1	C	)	c	· c	0	0	0	0	0	0	0	, 0	, 0	, c	0	, c	>
0	1 0	0	C	0	~	ı C	0	· c	0	0	_	· c	· c	· c	•	421		7		α	0	4	ω	σ	7	0	00	œ	4	0	· œ	4	, 4	>
00	0	0	0	0	0	· c	0	0	0	0	C	· c	· c	· c	•	420	,	~	, ,	4	0	0	7	Ŋ	0	0	0	0	0	0	0	0	, c	>
7	7	0	0	0	δ	· c	0	0	-	0	c	•		4	•	419		C	•	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0	>
00	٥ د	0	0	0	Н	0	0	0	0	0	0	0	0	0	•	18		0	ı	4	0	0	9	7	0	0	0	7	0	0	0	0	0	>
7 1	9	0	0	10	10	0	0	0	~	0	0	0	0	~	ı	117 4		7	ı	m	0	0	9	4	0	0	0	0	0	0	0	0	0	>
0 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	16 4		7	ı	æ	0	0	7	œ	0	0	7	7	0	٣	0	~ ~	9	>
H 1	9	0	0	œ	10	0	0	0	œ	0	S	7	0	m		415 4		~	ı	Ŋ	0	0	00	σ	0	0	7	0	0	0	0	0	0	,
0 1	0	0	0	ч	7	0	0	0	0	0	0	0	0	0		414 4		0	0	0	0	0	7	~	0	0	0	0	0	0	0	0	0	,
0 1	0	0	0	9	œ	0	0	0	0	0	0	0	0	m	8	411 4		0	1	9	0	0	6	10	0	0	7	٣	0	Ŋ	7	0	0	٠,
00	0	1	0	0	٣	0	0	0	0	0	0	0	0	0	MPOU	10		Н	1	٣	0	0	7	6	0	0	0	0	0	0	٣	0	ო	, !
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00	0	0	0	9	0	0	0	0	0	0	0	0	0	0		07 4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0 1	0	0	0	9	6	0	0	0	0	0	0	0	0	0		06 4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
00	0	0	0	0	0	0	0	0	0	0	0	0	0	0		05 4		0	ı	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0 1	0	0	0	-	~	0	0	0	0	0	0	0	0	0		4		7	0	9	0	0	0	0	0	0	_	~	0	0	0	0	٣	
00	٥	0	0	0	0	0	0	0	0	0	0	0	0	0		3 40																0		
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00			0	0	7		٥			0	J	0	٥	0		402		Ü	C	(*)	٥	٥	oı	ä	_	_			_	_	_	0		
signalgrass 1straw	Blackgrass				Giant foxtail	Morningglory			Redroot pigweed		Sugarbeets	Velvetleaf		Wild oats		62 g/ha	Preemergence	B. signalgrass		Blackgrass	Cocklebur		Crabgrass	Giant foxtail	Morningglory			Redroot pigweed		Sugarbeets	Velvetleaf		Wild oats	

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446	0	1	Ŋ	0	0	8	9	0	0	0	9	0	0	0	0	0		471		9				0		7				~				
445	0	ı	0	0	0	0	0	0	0	0	0	0	0	0	0	0		470		0	1	0	0	0	<del>, -</del> 1	0	0	0	0	٥	0	0	0	0
444	0	•	0	0	0	4	മ	0	0	0	10	0	0	0	0	0		469		m	ı	9	0	0	თ	9	0	٥	0	5	0	9	4	0
443	0	•	0	0	0	ഹ	m	0	0	0	0	0	0	0	0	0		468		0	i	m	0	0	σ	ø	0	0	0	0	0	0	0	0
442	0	1	0	0	0	7	0	0	0	0	0	0	0	0	0	0		467		0	0	0	~	0	ស	0	0	1	7	2	F	Н	0	0
441	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		466		0	1	7	0	0	9	თ	0	0	0	Н	0	0	Ö	0
440 4	7	ı	~	•	0	7	9	0	0	0	0	0	0	0	0	0		465		0	ı	7	0	0	7	7	0	0	0	m	0	0	0	0
39	0	ı	0	0	0	0	0	0	0	0	0	0	0	0	0	0		463		0	ı	0	0	0	0	0	0	0	0	7	0	0	0	0
38 4	0	ı	0	0	0	m	~	0	0	0	~	0	0	0	0	0		462 '		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
437 4	0	ı	0	0	0	0	0	0	0	0	0	0	0	0	0	0		461 '		0	ı	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	ı	0	0	0	0	0	0	0	0	0	0	0	0	0	0		09		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
435 4	0	ı	0	0	0	ı	0	0	0	0	7	0	0	0	0	0	£	59 4		0	0	0	0	0	7	œ	0	0	0	0	0	0	0	0
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33 4	7	•	7	0	0	σ	10	0	0	0	0	0	0	~	0	~	ខ	57 4		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
32 4	0	i	0	0	0	٣	0	0	0	0	0	0	0	0	0	0		56 4		0	ſ	0	0	0	9	S	0	0	0	0	0	0	0	0
31 43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		55 4		0	ı	m	0	0	ហ	10	0	0	0	7	0	0	~	0
30 43	н	,	0	0	0	6	90	0	0	0	0	0	0	0	0	0		54 4		0	ı	0	0	0	7	9	0	0	0	0	0	0	0	0
29 43	0	ı	0	0	0	7	ო	0	0	0	0	0	0	0	0	0		53 4		0	ı	0	0	0	ហ	7	0	0	0	0	0	0	0	0
28 4	0	,	0	0	0	7	0	0	0	0	0	0	0	0	0	0		52 4		0	ı	0	0	0	ស	7	0	0	0	0	0	0	0	0
7 42	0	ı	0	0	0	5	7	0	0	0	0	0	0	0	0	0		1.4		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
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Rate 62 g/ha Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 62 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat

Velvetleaf	0	0	വ	0	0	9	<del>, -</del>	0	0	0	ო	<del>, -</del> 1	0	0	0	0	0	0	0	0	0	0	
Wheat	0	0	7	4	0	0	7	٣	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Wild oats	0	0	7	0	σ	9	9	7	0	٣	0	4	0	~	m	٣	ო	0	4	4	0	0	
Table B								ဗ	OMPOU	Ð													
Rate 62 g/ha	521	522	523	524	525	526 5	527 5	528 5	31 5	32 5	33 5	34 5	35 5	36 5	40 5	41 5	43 5	44 5	45 5/	46 5	48 5	49	
Preemergence																							
B. signalgrass	0	10	4	0	6	œ	7	0	7	0	~	6	ı	0	0	0	0	٣	0	0	0	0	
Bedstraw	0	10	0	ı	0	0	0	0	0	0	0	0	0	0	0	0	•	0	0	0	œ	0	
Blackgrass	0	4	7	4	80	7	0	0	7	0	4	œ	ı	0	0	0	0	0	0	0	0	0	
Cocklebur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ı	ı	0	0	0	0	0	
Corn	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crabgrass	10	6	6	6	6	0	σ	7	80	თ	σ	σ	10	0	œ	Ŋ	ゼ	σ	œ	7	σ	٣	
Giant foxtail	10	10	10	თ	σ	σ	თ	თ	σ	10	თ	თ	10	7	6	7	٣	0	10	,	σ	6	
Morningglory	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Nutsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ı	1	0	0	0	0	0	ı	
Rape	0	0	0	~	0	4	0	0	0	0	0	~	7	0	0	0	0	0	0	0	0	0	
Redroot pigweed	0	10	7	æ	0	7	0	0	0	0	œ	0	7	0	0	0	7	٣	٣	,	0	9	
Soybean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ö	0	0	0	
Sugarbeets	0	ហ	ო	0	Z,	4	0	0	0	0	٣	٣	4	0	0	0	4	0	0	0	0	0	
Velvetleaf	0	~	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Wheat	0	0	0	0	ო	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Wild oats	0	10	0	7	ß	7	0	0	0	0	0	m	0	0	0	0	0	0	0	0	0	0	
Table B								ឋ		Ę													
Rate 62 g/ha	550	551	552	553	554	555	3 955	557 5	558 5	29	260	561 5	62	563	564 5	65 5	99	67 5	68 5	69 5	20	571	
Preemergence																							
B. signalgrass	9	4	4	9	7	9	9	4	0	œ	4	4	Ŋ	ᠬ	7	0	6	0	m	0	0	0	
Bedstraw	0	•		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Blackgrass	0	٣		7	ı	0	9	9	7	თ	4	Ŋ	4	7	0	0	٣	0	ഹ	0	0	0	
Cocklebur	0	0		١	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Corn	0	0		0	0	0	0	0	0	7	0	0	0	0	7	0	0	0	0	0	0	0	
Crabgrass	7	9		10	σ	σ	σ	σ	æ	σ	6	6	œ	<b>œ</b>	7	0	6	0	7	7	თ	7	
Giant foxtail	7	10		10	9	σ	თ	σ	8	10	10	0	7	0	6	0	6	m	σ	σ	0	ო	
Morningglory	0	0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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Table B	Rate 31 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedg	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 31 g/ha	Preemergence	B. signalgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf

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Wheat Wild oats Table B Rate 31 g/ha	Preemergence B. signalgrass	Bedstraw	Blackgrass	Cockl bur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats	Table B	Rate 16 g/ha	Pre-emergence	Barnyardgrass	Ducksalad	Rice	S. Flatsedge

COMPOUND	0 291 779		0 0	0 0 0	0 0 0	0		0	7		0	0	0	0	0	0	0 0 0	
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Table B	Rate 16 g/ha	Preemergence	B. signalgras	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigwe	Soybean	Sugarbeets	Velvetleaf	Wheat	

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Table B	Rate 16 g/ha	Postemergence	B. signalgrass	Barnyardgrass	Bedstraw	Blackgrass	Cocklebur	Corn	Crabgrass	Ducksalad	Giant foxtail	Morningglory	Nutsedge	Rape	Redroot pigweed	Rice	S. Flatsedge	Soybean	Sugarbeets	Velvetleaf	Wheat	Wild oats

## TEST C

Compounds evaluated in this test were formulated in a non-phytotoxic solvent mixture which included a surfactant and applied to plants that were grown for various periods of time before treatment (postemergence application). A mixture of sandy loam soil and greenhouse potting mix in a 60:40 ratio was used for the postemergence test.

Plantings of these crops and weed species were adjusted to produce plants of appropriate size for the postemergence test. All plant species were grown using normal greenhouse practices. Crop and weed species include arrowleaf sida (Sida rhombifolia), barnyardgrass (Echinochloa crus-galli), cocklebur (Xanthium strumarium), common ragweed (Ambrosia elatior), corn (Zea mays), cotton (Gossypium hirsutum), eastern black nightshade (Solanum ptycanthum), fall panicum (Panicum dichotomiflorum), field bindweed (Convolvulus arvensis), giant foxtail (Setaria faberii), hairy beggarticks (Bidens pilosa), ivyleaf morningglory (Ipomoea hederacea), johnsongrass (Sorghum halepense), ladysthumb smartweed (Polygonum persicaria), lambsquarters (Chenopodium album), large crabgrass (Digitaria sanguinalis), purple nutsedge (Cyperus rotundus), redroot pigweed (Amaranthus retroflexus), soybean (Glycine max), surinam grass (Brachiaria decumbens), velvetleaf (Abutilon theophrasti) and wild poinsettia (Euphorbia heterophylla).

Treated plants and untreated controls were maintained in a greenhouse for approximately 14 to 21 days, after which all treated plants were compared to untreated controls and visually evaluated. Plant response ratings, summarized in Table C, were based upon a 0 to 100 scale where 0 was no effect and 100 was complete control. A dash response (-) means no test result.

Table C							COM	POUN	)					
Rate 1120 g/ha	80	93	94	103	107	109	113	116	117	131	132	138	146	242
Postemergence														
Arrowleaf sida	30	60	80	-	85	95	95	90	50	60	80	70	90	90
Barnyardgrass	20	95	65	80	95	95	95	90	90	95	95	85	95	95
Cocklebur	50	-	-	0	-	-	50	50	0	10	0	0	70	20
Common ragweed	5	20	5	5	50	20	20	0	50	0	0	-	30	80
Corn	0	45	0	0	60	55	60	20	85	40	10	60	50	20
Cotton	40	85	80	80	90	70	80	-	60	65	40	70	70	70
E. blacknightsh	60	85	95	0	95	95	95	50	80	80	0	70	85	90
Fall panicum	10	90	70	30	85	95	85	90	80	90	50	90	90	90
Field bindweed	0	50	0	0	60	10	50	50	40	60	70	50	0	0
Giant foxtail	20	95	40	40	95	85	80	85	80	80	0	85	85	85
H. beggarticks	10	70	20	5	95	85	50	-	0	70	-	80	85	90
I. morningglory	50	70	-	10	95	70	50	20	0	50	0	0	50	0
Johnsongrass	0	90	0	0	90	95	95	80	85	70	60	90	90	90
Ladysthumb	70	-	90	10	-	95	85	-	-	-	-	-	-	-
Lambsquarters	20	40	30	20	40	70	50	0	0	0	0	20	50	0
Large crabgrass	10	95	-	10	95	90	95	90	80	85	80	85	80	85
Purple nutsedge	0	10	0	0	10	0	10	10	80	80	0	70	0	80
Redroot pigweed	80	85	0	85	80	85	90	20	30	30	30	70	20	50
Soybean	-	85	55	35	85	85	85	40	60	45	40	40	85	65
Surinam grass	10	85	10	5	95	95	90	90	90	90	30	90	95	90

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								-00		70	0	80	60	60
Velvetleaf	20	70	40	45	75	75 90	75 95	80	60 0	70 80	0	70	70	85
Wild poinsettia	5	70	85	60	80		CE OMPC		U	00	•	, 0	. •	-
Table C	00	0.2	94	103	107				117	131	132	138	146	242
Rate 560 g/ha	80	93	94	103	107	103	113	110	11,					
Postemergence		60	80	0	75	85	70	85	0	30	10	_	85	70
Arrowleaf sida	20	90	30	10	90	85	85	90	90	95	80	85	85	90
Barnyardgrass	20 50	40	30	0	-	60	50	0	0	0	0	0	70	0
Cocklebur	5	10	5	Ö	50	10	-	ő	20	ō	Ō	0	30	80
Common ragweed	0	0	0	0	55	5	45	15	40	5	0	50	5	0
Corn	40	70	70	40	80	70	50	50	30	40	20	40	65	45
Cotton E. blacknightsh	50	-	75	0	70	-	-	10	70	50	0	70	85	60
	0	90	10	0	85	80	85	85	40	90	50	60	90	90
Fall panicum Field bindweed	0	0	0	Ö	30	10	50	50	30	0	40	0	0	0
Giant foxtail	0	80	10	Ö	95	80	80	60	75	60	0	80	80	80
H. beggarticks	10	5	5	ō	70	70	30	90	-	40	_	_	85	-
I. morningglory	30	10	90	ō	30	50	50	0	0	20	0	0	20	0
Johnsongrass	0	85	0	Õ	90	60	60	60	40	60	0	60	60	60
Ladysthumb	70	80	85	10	30	30	85	-	-	-	_	-	85	-
Lambsquarters	20	10	10	5	40	30	20	0	0	-	0	10	10	0
Large crabgrass	10	50	70	ō	95	90	95	30	60	70	40	85	60	85
Purple nutsedge	0	0	0	ō	10	0	0	10	10	0	0	50	0	10
Redroot pigweed	50	10	ō	70	80	70	0	0	0	20	-	40	-	10
Soybean	60	80	30	35	85	85	85	30	40	30	30	30	60	25
Surinam grass	0	50	0	0	80	50	90	_	40	85	0	85	50	85
Velvetleaf	20	40	20	10	70	50	60	40	20	10	0	70	40	40
Wild poinsettia	5	30	60	10	40	50	80	0	0	30	0	0	50	0
Table C							MPOU							
Rate 280 g/ha	80	93	94	103	107	109	113	116	117	131	132	138	146	242
Postemergence														
Arrowleaf sida	5	10	10	0	30	70	40	-	0	10	0	<u>-</u>	45	30
Barnyardgrass	10	90	0	0	85	85	80	85	80	70	50	70	80	85
Cocklebur	10	35	0	0	50	30	50	-	0	0	0	0	40	0
Common ragweed	0	10	0	0	50	10	5	0	0	0	0	0	-	10
Corn	0	0	0	0	5	0	40	0	0	0	0	20	0	0 20
Cotton	35	30	70	20	60	50	15	50	10	10	10	30	65	40
E. blacknightsh	5	40	40	0	50	80	50	0	0	10	0	10	30 60	85
Fall panicum	0	80	0	0	60	50	80	60	-	40	30 0	0	0	65
Field bindweed	0	0	0	0.		0	0	0	30	0 40	0	15	40	60
Giant foxtail	0	55	0	0	70	80	70	60	60	40	0	10	20	-
H. beggarticks	-	0	0	0	60	5	30	_	_	0	0	0	20	0
<ol> <li>morningglory</li> </ol>	10	10	10	0	30	50	50	0	0 35	40	0	20	30	45
Johnsongrass	0	5	0	0	50	10	20	40	35	40	_	_	10	-
Ladysthumb	10	0	10	0	_	10	0	-	_	0	0	0	5	0
Lambsquarters	15	10	5	5	0	10 60	- 85	0	0 20	20	10	10	60	30
Large crabgrass	0	30	0	0	85	0	10	0	0	0	0	0	0	0
Purple nutsedge	0	0	0	0 60	0 75	40	10	0	Ö	10	10	10	_	ō
Redroot pigweed	0	-	- 15	30	70	70	70	10	35	25	20	30	50	25
Soybean	20	60	12	20	70	5	40	0	0	80	-0	40	5	40
Surinam grass	0 5	45 5	5	5	60	20	-0	Ö	_	0	ō	60	40	0
Velvetleaf	_	0	0	0	15	30	50	Õ	0	10	Ō	0	40	0
Wild poinsettia	0	U	_	-		C	OMPO	UND	_		_	_		
Table C	80	93	9.4	103	107	109	113	116	117	131	132	138	146	242
Rate 140 g/ha Postemergence	80	23	74	-05	201									
Arrowleaf sida	0	-	_	0	-	60	30	0	0	_	0	0	40	10
Barnyardgrass	0	70	0	ō	70	60	80	55	70	70	50	40	60	80
Darmy ar agrass	•	. •	•	-	. •									

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Cocklebur	5	0	0	0	0	30	5	0	0	0	0	0	40	0
Common ragweed	0	5	0	0	0	5	5	0	0	0	0	0	10	0
Corn	0	0	0	0	0	0	0	0	0	0	0	-	0	0
Cotton	20	15	20	0	45	10	10	10	5	10	5	5	40	0
E. blacknightsh	0	10	0	0	50	50	50	0	0	0	0	0	0	0
Fall panicum	0	0	0	0	50	50	60	10	0	0	0	0	50	30
Field bindweed	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Giant foxtail	0	10	0	0	-	50	20	-	0	10	0	0	0	40
H. beggarticks	0	_	0	0	5	_	5	80	-	0	0	-	10	-
I. morningglory	0	5	0	0	10	0	10	0	0	0	0	0	0	0
Johnsongrass	Ó	Ō	Ō	0	35	Ō	Û	10	10	15	0	0	0	45
Ladysthumb	10	0	5	0	0	-	0	-	-	-	-	-	0	-
Lambsquarters	0	10	0	0	0	10	0	0	0	0	0	0	0	0
Large crabgrass	0	0	0	0	70	10	0	0	0	0	0	0	0	10
Purple nutsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Redroot pigweed	-	5	-	0	-	0	0	0	0	10	0	0	0	0
Soybean	5	40	15	30	45	35	40	10	10	20	5	10	40	20
Surinam grass	0	0	0	0	10	0	0	0	0	0	0	10	0	0
Velvetleaf	5	0	5	0	5	10	0	0	0	0	0	0	0	0
Wild poinsettia	0	0	0	0	0	10	10	0	0	0	0	0	0	0

## TEST D

Seeds, tubers, or plant parts of Alexandergrass (Brachiaria plantaginea), bermudagrass (Cynodon dactylon), common purslane (Portulaca oleracea), common ragweed (Ambrosia elatior), common groundsel (Senecio vulgaris), dallisgrass (Paspalum dilatatum), goosegrass (Eleusine indica), guineagrass (Panicum maximum), itchgrass (Rottboellia exaltata), Johnson grass (Sorghum halepense), large crabgrass (Digitaria sanguinalis), pitted morningglory (Ipomoea lacunosa), purple nutsedge (Cyperus rotundus), sandbur (Cenchrus echinatus), sourgrass (Trichachne insularis), Spanishneedles (Bidens bipinnata), surinam grass (Brachiaria decumbens) and tall mallow (Malva sylvestris) were planted into greenhouse pots of flats containing greenhouse planting medium. Plant species were grown in separate pots or individual compartments. Preemergence applications were made within one day of planting the seed or plant part.

Test chemicals were formulated in a non-phytotoxic solvent mixture which included a surfactant and applied preemergence to the surface of the pot containing seeds in a sandy loam soil. Untreated control pots and treated pots were placed in the greenhouse for growth and visually evaluated for injury 14 to 21 days after herbicide application. Plant response ratings, summarized in Table C, are based on a 0 to 100 scale where 0 is no injury and 100 is complete control. A dash (-) response means no test result.

Table D	CO	MPOU	ND.	Table D	COM	POU	ND
Rate 500 g/ha	146	147	299	Itchgrass	65	65	100
Postemergence				Johnsongrass	65	70	100
Alexandergrass	65	75	100	Large crabgrass	65	60	100
Bermudagrass	35	40	100	P. morninglory	65	30	0
C. purslane	20	10	0	Purple nutsedge	35	60	100
C. ragweed	40	0	100	Sandbur	80	90	100
Com. groundsel	0	0	100	Sourgrass	80	80	-
Dallisgrass	80	85	100	Spanishneedles	20	20	100
Goosegrass	80	65	100	Surinam grass	80	70	100
Green foxtail	-	-	100	Tall Mallow	50	20	100
Guineagrass	60	60	100				

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	147		00T		0	0													30															. •		
	146																		100	100	100															
	138	6	nnt	100	100	100	100	100	100	100	100	100	100	100	65	80	100	1	75	100	100															
	131	6	TOO	100	10	100	100	100	100	100	100	100	100	100	100	82	100	ı	90	100	100								٠							
	117	Ċ	, מ	100	0	65	100	100	100	100	100	100	100	100	40	100	100	ı	0	100	100															
	115	9	007	100	0	20	98	100	100	100	100	20	90	100	10	0	100	1	10	82	0															
	112	6	001	100	0	0	10	100	100	0	100	80	20	100	10	40	100	ı	10	98	20															
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	g/ha	ıce	grass	SS	Je	<b></b>	dse	S	rn	ail	SS		355	bgras	glor	tsed			dles	rass	M O			g/h	nce	gras	ass	ne	ğ	ndse	SS	Ø	tail	SS		0.00
Д	500	erger	jaeri	lagri	ıslaı	умеес	grou	3gra	grass	fox	agrai	rass	abuc	cra	rnin	nu a	ür	rass	shne	am g	Mall		Ω	200	erge	nder	dagr	rsla	gwee	grou	sgra	gras	fox	agra	irass	Cond
Table D	Rate 500 g/ha	Preemergence	Alexandergrass	Bermudagrass	C. purslane	C. ragweed	Com. groundsel	Dallisgrass	Goosegrass	Green foxtai	Guineagrass	Itchgrass	Johnsongrass	Large crabgras	P. morninglory	Purple nutsedge	Sandbur	Sourgrass	Spanishne	Surinam grass	rall Mallow		Table D	Rate 500 g/ha	Preemergence	Alexandergrass	Bermudagrass	C. purslane	C. ragweed	Com. groundsel	Dallisgrass	Goosegrass	Green foxtai	Guineagrass	Itchgrass	Johnsongrass
Ta	Ra	Pr.	A	ă	ن	ບ	ี่	ŭ	ŏ	ច	ಠ	Ħ	ñ	Ä	Д	Ã	Š	Ñ	ຜູ	ຜ	H		F	ρĞ	Д	Æ	Д	ບ	ပ	U	Ω	G	G	G	H	כי

																														151		100	100	0
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																														138		86	100	100
																														131		100	100	10
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Green foxtail Guineagrass Itchgrass	Johnsongrass	Ø	P. morninglory	Purple nutsedge	Sandbur	Sourgrass	Spanishneedles	Surinam grass	Tall Mallow	Table D	Rate 32 g/ha	Preemergence	Alexandergrass	Bermudagrass	C. purslane	C. ragweed	Com. groundsel	Dallisgrass	Goosegrass	Green foxtail	Guineagrass	Itchgrass	Johnsongrass	Large crabgrass	P. morninglory	Purple nutsedge	Sandbur	Sourgrass	Spanishneedles	Surinam grass	Tall Mallow	Table D	Rate 32 g/ha

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Green foxtail

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Table D Rate 16 g/ha Postemergence	Alexandergrass	Bermudagrass	C. purslane	C. ragweed	Com. groundsel	Dallisgrass	Goosegrass	Green foxtail	Guineagrass	Itchgrass	Johnsongrass	Large crabgrass	P. morninglory	Purple nutsedge	Sandbur	Sourgrass	Spanishn edles	Surinam grass	Tall Mallow	Table D	Rate 16 g/ha	Preem rgence	Alexandergrass	Bermudagrass	C. purslane	C. ragweed	Com. groundsel	Dallisgrass	Goosegrass	Green foxtail	Guineagrass	Itchgrass	Johnsongrass

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## TEST E

Compounds evaluated in this test were formulated in a non-phytotoxic solvent mixture which included a surfactant and applied to plants that were in the 1- to 4-leaf stage (postemergence application). A mixture of sandy loam soil and greenhouse potting mix in a 60:40 ratio was used for the postemergence test.

Plantings of these crops and weed species were adjusted to produce plants of appropriate size for the postemergence test. All plant species were grown using normal greenhouse practices. Crop and weed species include annual bluegrass (Poa annua), blackgrass (Alopecurus myosuroides), black nightshade (Solanum nigra), chickweed (Stellaria media), common poppy (Papaver rhoeas), deadnettle (Lamium amplexicaule), downy brome (Bromus tectorum), field violet (Viola arvensis), galium (Galium aparine), green foxtail (Setaria viridis), Italian ryegrass (Lolium multiflorum), jointed goatgrass (Aegilops cylindrica), kochia (Kochia scoparia), lambsquarters (Chenopodium album), littleseed canarygrass (Phalaris minor), rape (Brassica napus), redroot pigweed (Amaranthus retroflexus), Russian thistle (Salsola kali), scentless chamomile (Matricaria inodora), spring barley (Hordeum vulgare), sugar beet (Beta vulgaris), sunflower (Helianthus annuus), ivyleaf speedwell (Veronica hederaefolia), spring wheat (Triticum aestivum), wild buckwheat (Polygonum convolvulus), wild mustard (Sinapis arvensis), wild oat (Avena fatua), windgrass (Apera spica-venti) and winter barley (Hordeum vulgare).

Treated plants and untreated controls were maintained in a greenhouse for approximately 21 to 28 days, after which all treated plants were compared to untreated controls and visually evaluated. Plant response ratings, summarized in Table E, are based upon a 0 to 100 scale where 0 is no effect and 100 is complete control. A dash response (-) means no test result.

Table E COMPOUND		Annual bluegras -	Barley (winter) 80	Blackgrass 60	hade	Chickweed	Common poppy	Deadnettle -	Downy brome -	Field violet -	Galium -	Green foxtail 100		tara	Kochia	Lambsquarters -	LS canarygrass -	Rape	Redroot pigweed -	Russian thistle -	Scentless chamo -	Spring Barley -	Spring Wheat -	Sugar beet -	Sunflower -	Wheat (winter) 70	Wild buckwheat -	Wild mustard -	Wild oat 70	Windorass	} } {   D
Table E COMPOUND Rate 2000 q/ha 177	Postemergence	Annual bluegras -	Barley (winter) -	Blackgrass -	Blk nightshade -	Chickweed -	Common poppy -	Deadnettl -	Downy brome -	Field violet	Galium -	Green foxtail -	I. Ryegrass -	Jointed goatgra -	Kochia -	Lambsquarters	LS canarygrass -	Rape -	Redroot pigweed	Russian thistle -	Scentless chamo -	Spring Barley -	Spring Wheat	Sugar beet -	Sunflower -	Veronica hedera -	Wheat (winter) 70	Wild buckwheat -	Wild mustard -	Wild oat -	Windgrass -

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Wheat (winter)	9	20	45	25	65	20	55	0	20	20	80	09	80	80	20	40	30	י כ	, 5	٠ ۲	۱ ج	1 5
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Barley (winter)	1	1	1	ı	ı	ŧ	1	,	ı	,	ì	ı	ı	ı	ı	ı		ı :			1	ı
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Blk nightshade	ı	ı	١	١	ı	1	1	ı	ı	1	i	,	,		) .	ı	ı		ı	į		ı
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Common poppy	ı	1	1	ı	1	•	١	ı		,	1	1	,	ı	1				1	ı	ı	
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Scentless chamo	•	1	1	1	ı	1	1	ı	ı	ı	ı	,	1	ı	1	1	: 1	ı	i 1	!!		•

Spring Barley	1	ı	•	1	ı	ı	1	1	ı	ı	ı	ı	ı	,	ι	,						
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Wheat (winter)	80	30	20	30	30	20	70	40	20	20	20					-						1 6
Wild buckwheat	ŀ	1	1	•	1	1			, 1								•				_	<b>.</b>
Wild mustard	ı	ı	t	ı	•	ł		ı	,	ŧ												
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Windgrass	ı	ı	!	ı	ı	1	1	ı	,	ı	ı	ı	,				1					
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Annual bluegras	10	1	ı	ı	ı	ı	1	1	ı	ı	ı	1	ı	,	ı	1	ı					
Barley (winter)	10	ı		ı	1	ı	•	ı	ı	1	•	ı	,	1	ı	,	,					1 1
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Field violet	0	ı		ı	1	ı	1	ı		1	,	,	ı	1	ı		1	,				1 1
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Green foxtail	9	1	•	ı	1	t	,	ı	ı		,	1	ı	ì	ı	ı						
<ol> <li>Ryegrass</li> </ol>	70	1	ı	ı	ı	ı	•	ı	,	ı		ı	ı	1	ı	ı	ı	•				
Jointed goatgra	0	ı	1	,	ı	1	ı	•	ı	1			ı	1	ı	í	t					
Kochia	0	•	ı	ı	1	•	•	ı	ı		,	,	ı	1	1	ı		ı				
Lambsquarters	0	1	1	ì	ı	1	ı	ı	ſ	,	,	1	ı	1	ı	ı	ı	1				
LS canarygrass	15	1	ı	ı	ı	ı	,	,	•	ı	ı	ı	ı	1	ŧ	ı	ı	,				<b>1</b> 1
Rape	0	1	•	•	•	1	t	ı	ı		ı	1		1	,	,						
Redroot pigweed	0	•	ı	1	ı	ı	1	ı	ı	,	1	ı	1	1	,							
Russian thistle	0	•	1	1	ı	1	,	ı	ı	ı	ı	ı		1	1	,	:					
Scentless chamo	0	1	1	1	•	ı	ı		1	1	1	ı	1	1	ı	ı	ŧ					
Spring Barley	20	1	٠	ı	ı	ı	ı	ı	1	ı		ı		1	ı	4	ı	ı	,	. 1		
Spring Wheat	10	1	ı	ı	t	ı	ı	ı	1	ı	1	,	ı	1	ı	,		1				
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Sunflower	Veronica hedera	Wheat (winter)	Wild buckwheat	Wild mustard	Wild oat	Windgrass	Table E	Rate 250 g/ha	Postemergence	Annual bluegras	Barley (winter)	Blackgrass	Blk nightshade	Chickwe d	Common poppy	Deadnettle	Downy brome	Field violet	Galium	Green foxtail	I. Ryegrass	Jointed goatgra	Kochia	Lambsquarters	LS canarygrass	Rape	Redroot pigweed	Russian thistle	Scentless chamo	Spring Barley	Spring Wheat	Sugar beet	Sunflower	Veronica hedera	Wheat (winter)

Wild buckwheat	ı	•	ı	ı	ı	ı	1	ı	ı	1	ı	ı	,	ı		ı	1	ı	,	1	,	
Wild mustard	1	,	1	1	ı	ı	ı	ı	ı	1	ı	1	,	,		ι	,	1		1	,	
Wild oat	ı	•	ı	•	ı	•	1	ı	ı	1	ı	i	ı	ı	ı	ı	1	ì	ı	ı	ı	
Windgrass	ı	ı	1	,	,	1	ı	ı	ı	1	1	1	ı	,	,	ι	,	1		,	ı	
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Preemergence																						
Annual bluegras	ı	ı	1	1	1	1	ı	1	ŧ	1			,		ı			90	ı	ı		ı
Barley (winter)	10	20	10	0	30	30	20	10	70	_		40	10	30	_				2	0		85
Blackgrass	20	10	30	45	40	40	10			20	75 6		0	30	20	80	90		09	0	50	35
Blk nightshade	ı	ι	1	i	1	ı	ı	1	ı	1	80	ı	ı	:	ı			90	ı	1	ı	
Chickweed	•	ı	1	ı	ı	1	1	ı	ι	1	00	ı		1	ı			30	1	1	1	,
Common poppy	1	ŧ	١	,	1	1	ı	ı	1	,	ı		ı	,	ı	ı	1	1	1		ı	ı
Deadnettle	ı	ι	1	ı	ŧ	ı	1	ı	ı	1	82	ı	1	,	,	85		30	ı	1		,
Downy brome	1	ı	١	1	1	ı	ı	i	ι	1	20	,	ï	,	ı	75		80	,	ı	ŧ	ŧ
Field violet	ı	ŧ	,	ı	1	ï	ı	1	ι	•	_	,	1	,	ı	20		15	,	ı		ı
Galium	ı	ı	1	ı	,	t	ı	ı	1	ï	_				-	100		00	,	1		1
Green foxtail	22	30	30	90	70	09	30	, 09	40			80	09	20	_	95			85 1	0	20	85
I. Ryegrass	20	40	20	20	30	20	_			10 1		_		20	30	95			20	·`	_	00
Jointed goatgra	i	ı	١	1	ı	ı	ſ	ı	1	ı	9	,	,		•	20		65	1	,	ı	,
Kochia	1	ı	١	ı	1	ı	ı	1	ı	ı	20	,	ı		ı	80		20	ì	ı	ı	ı
Lambsquarters	ı	ı	٠	1	1	1	ı	ı	,		00	ı	,	ı	-	00		00	,	ı	1	ı
LS canarygrass	ı	1	•	1	ı	ı	ı	ı	ı	ı	09	,	,	1	ı	80		09	1	1	ı	ı
Rape	1	ı	١	1	ı	ı	ı	1	ı	ı	10	1	ı	ı	-	00		55	1	ı	ı	ı
Redroot pigweed	1	ı	ı	1	1	1	1	ı	ı	ı	90	ı	ı	,	1	00	_	00	ı	ı	ŧ	ı
Russian thistle	1	•	ı	1	ı	ı	ı	i		ι	0	ı	ı	ı	ı	10	15	0	:	,		,
Scentless chamo	ι	ı	ı	ł	1	ı	ı	ı	ı	1	1	,	ı	ı	,	90	_	30	1	1	ı	ı
Spring Barley	ı	ı	ι	1	1	ı	ı	ı	1	ι	09	ı	ı	ı	ı	70		20	;	•	ı	ı
Spring Wheat	1	•	ı	1 .	1	1	ı	1	1	t	80	ı	ı	ı	ı	82	30	40	1		ı	,
Sugar beet	1	1	1	1	•	ı	ı	ı	ı	ı	ស	1	ı	1	1	00	09	09	1	1	ı	ı
Sunflower	1	1	ı	1	ı	ı	1	1	ı	ı	20	1	,	ı	ı	40	10	10	1	1		ı
Wheat (winter)	0	0	0	0	20	40	10	10	09	0	100	30	40	20	0	40	10	55	0	0	0	9
Wild buckwheat	ı	ı	ı	1	1	1	ı	i	1	ı	40	1	ı	ı	ı	95	0	82	1	1	1	1
Wild mustard	1	ı	ı	1	ı	ı	ı	ı	ı	ı	80	1	ı	1	,	001	65	82			,	ı
Wild oat	70	20	10	20	40	22	30	0	70		09	40	40	40	20	0		20	10	0	0	09
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30	1 1	•	•		04 0	ı	1	ı	•	1	1	ı	١	1	1	ı	ı	30	1	1	40	ì	:	271		ŧ	45	100	ı	ı
30	1 1	ı	ı	ı	50	ı	•	1	1	ı	ı	1	١	ı	1	1	1	20	ı	1	30	•		269		1	30	40	ı	1
30	1 1	ı	ı	1	30	ı	ı	ı	ı	1	ı	ı	ı	ı	ı	•	1	9	ı	ı	20	1		267		ł	30	20	ŀ	ı
30	1 1	ı	ı	1	85 35	1	1	1	ı	ı	ı	ı	ı	ı	1	ı	1	20	;	i	20	•		246		ı	40	9	ı	ı
50	1 1	ı	•	ı	30	ı	ı	ŧ	ı	ı	•	ı	•	1	ı	ı	ı	10	1	1	30	١		243		1	9	82	i	ı
70 85 -	<b>1</b> 1	ı	ŀ	ı	100	ı	ı	ı	1	ı	•	ı	•	•	1	•	ı	70	ı	,	70	1		242	,	100	9	100	95	•
Barley (winter) Blackgrass Blk nightshade Chickweed	Common poppy Deadnettl	Downy brome	Field violet	Galium	Green foxtail 1	Jointed goatgra	Kochia	Lambsquarters	LS canarygrass	Rape	Redroot pigweed	Russian thistle	Scentless chamo	Spring Barley	Spring Wheat	Sugar beet	Sunflower	Wheat (winter)	Wild buckwheat	Wild mustard	Wild oat	Windgrass				_	Barley (winter)	Blackgrass	Blk nightshade	Chickweed

	ı	1	ı	ł	t	1	ı	ı	ı	ı	ı	ı	ŧ	ı	•	ı	ı	ı	ı	ı	ı	ı
Deadn ttle	70	1	ı	ı	ı	1	ı	ı	ı	ı	ı	ı	ı	ı	ı	ŧ	1	ı	ı	1	1	ı
	100	1	ı	ı	ł	ı	ı	1	i	ı	ı	ı	ı	ı	ı	ı	1	ı	•	,		ı
Field violet	65	1	١	1	i	i	ı	,	ı	ı	ı	ı	ı	1	,	ı	1	,	1	ŧ	ı	ı
	100	1	•	•	ı	ı	ı	ı	1	ı	ı	ı	ı	ı	ı	1	1		•	1	ı	1
Green foxtail		100	100	100	0	100	20	20 1	1001	00,	100	80 1	100 1	100	22	90	20	65	55	70 1	00	9
I. Ryegrass			_	20	20	100	30	_	09		09	_		85	40	09	30	09	70	_	20	9
Jointed goatgra	80	1	1	٠	i	ı	ı	1	ı	1	ı	ı	•	1		ı	ı	ı	•	1	ı	ı
Kochia	20	1	ı	ı	•	ı	•	1	ı	•	ı	•	ı	1		•	,		ı	1	ı	ı
larters	100	1	i	ı	ı	ı	ı	1	•	•	•	1	ı	ı	1	1	ı	•	ı	1	ı	ı
Ø	100	1	1	1	:	ı	ı	ı	1	ı	ı	ı	ı	ı	ı	١	1	•	ı	ı	ı	1
Rape	9	1	ı	ı	1	ı	r	ı	ı	ı	ı	1	ı	ı		١	1	ı	ı	ı	•	ı
Redroot pigweed 100	100	1	1	1	ı	ı	ı	ı	,	•	ı	ı	ı	1	ı	•	1	ı	,	1	,	1
Russian thistle	30	1	ı	ı	ı	ı	ı	1	ı	•	ı	ı	í	1	ı	í	1	ı	1	ı	ı	ı
Scentless chamo	•	1	1	ı	1	ı	ı	1	•	ı	1	ı	ı	•	ŧ	١	•	ı	ı	1	ı	1
Spring Barley	70	1	1	ł	ŧ	ï	ı	1	ŧ	ı	ŀ	ı	ı	ı	ı	١	1	ı	ſ	1	ı	1
Spring Wheat	9	1	ı	1	ı	1	ı	J	•	ı	ı	ı	1	ı		1	ı	ı	ı	•	1	1
Sugar beet	20	1	1	1	ı	ı	i	ı	1	1	ı	1	ŧ	ı	ı	1	1	ı	•	ı	1	ı
Sunflower	70	1	1	ı	•	ı	i	,	ı	ı	ı	ı	٠	1	ŧ	1	ı	ı	ı	ı	•	1
Wheat (winter)	55	70	20	55	9	9	20	30	30	20	9	9	20	70	40	20	40	10	35	20	09	30
Wild buckwheat	70	١	I	1	•	ı	ı	ı	1	•	ı	ı	ı	ı	ı	١	ı	ı	ŧ	,	ı	1
Wild mustard	65	1	1	1	1	•	ı	ı	1	ı	ı	t	•	ı	ı	•	ı	ı	ı	ı	,	ı
Wild oat	98	55	20	22	70	9	80	40	09	09	70	70	9	70	10	09	20	09	20	10	10	20
Windgrass	100	1	,	ŀ	ı	1	•	1	i	ı	ı	t	;	ı	ŧ	١	1	ı	ı	ı	:	1
Table E								ັບ	0	B												
Rate 250 g/ha	299	309	310	314	315	317	328	340	341	350	351	53	354	367	369 3	370	371	372 3	375	387 3	88	
Preemergence																						
Annual bluegras	ŧ	١	1	t	1	ı	ı	1	i	1	1	•	1	ı	ı		1	ı	ı	1	i	
Barley (winter)	20	20	70	9	70	20	40	20	20	10	70	20	30	30	70	9	9	70	ı	15	20	
Blackgrass	100	9	82	20	9	100	20	20	40	30	85	20	52	30	82		100	9	09	20	0	
Blk nightshade	ı	•	١	1	1	ı	1	1	1	ı	ı	•	•	1	•	١	1	1	:	1	ı	
Chickweed	ŧ	١	ı	ı	•	•	1	ı	ı	ı	1	ı	ı	1	ı	•	ı	ı	1	ı	ı	
Common poppy	l	1	1	ı	1	1	ı	ı	•	•	•	•	ı	ı	•	•	ì	1	ı	ı	ı	
Deadnettle	ŧ	1	ı	ı	ı	1	1	1	ı	•	•	•	ı	1	ı	•	1	1	ŧ	1	ı	
Downy brome	ı	•	ı	•	1	1	•	ŧ	ı	1	•	1	•	•	•	1	1	ı	ı	ı	ı	
Field violet	1	1	ı	ŧ	4	ı	1	1		ı	ı	1	ı	1	•	•	1	ı	•	•	•	

3alium	ı		ı	ı	ı		ı	ı	1	1		ı	ı	1		ı				í	1	
Green foxtail	100	65	100	85 1	1001	100 1	100	30	25	55	90 1	100	80	20	50 1	100	09	09	09	20	40	
I. Ryegrass	82		70				9	22	20	90		90	09	09		85				01	40	
Jointed goatgra	1	ı	ı	•	ı	ı	ı	ı	1	,	t	ı	ŧ	ı	1	1	ı	1		ı	١	
Kochia	1	1	ı	1	ı	1	ı	1	ı	١	ŧ	i	ı	ı	ı	ı	ı	1		i	•	
Lambsquarters	•	•	•	ı	ı	t	1	ı	•	1	ι	ı	1	ı	1	t		ı		1	•	
LS canarygrass	1	1	ı	1	ı	ı	•	i	ı	1	ı	ŧ	ı	ı	•	1	ı	ı		,	•	
Rape	ŀ	1	1	1	ı	1	ı	1	1	1	1	1		ı	1	ı	,	ı		1		
Redroot pigweed	1	1	ı	ı	ı	•	1	1	ı	1	ı		ı	ı	ı	ı	,	ı		1		
Russian thistle	1	ı	ı	1	ı	ı	ı	ı		1	1	1	ı	,	ı	ı	ı	1		1	ı	
Scentless chamo	١	ı	ı	•	1	ı	,			٠	ı	ı		1	ı	•	ı	1	1	1	ł	
Spring Barley	ı	ı	1	ı	ı	ı	1	ı	ı	١	•	1	ı	- 1	ı	ı	ı	ı		1	1	
Spring Wheat	1	,	1	•	ŀ	ı		ı	1	,	ı	•	•	ı	•	ı	ı		,	1	ı	
Sugar beet	ı	•	1	1	ı	1	ł	ı	1	•	1	ı	ı	ı	1	ı	ì	1		1	ι	
Sunflower	ı	ı	ı	1	i	ı	ı	ı	ì	١	ı	1	•	1	1	ı	ı			1	ı	
Wheat (winter)	9	70	70	70	70	20	40	40	40	40	09	40	20	40	09	40	09	20	40	55	20	
Wild buckwheat	٠	•	ı	•	ı	ī	ı	ı	1	•	ı	ı	1	ı	1	ı	ı	ı	ı	,	ı	
Wild mustard	1	•	1	ı	ı	ı	•	ι	ì	ι	ı	,	ı	ı	ı	1	ı	ı		1	ı	
Wild oat	70	20	70	70	9	09	70	20	09	9	70	55	30	20	9	75	85	09	09	0	20	
Windgrass	ı	!	1	ı	,	ı	1	1	1	,	ı	1	i	ı	ı	ı	1	•		i	ı	
Tabl E								ŭ	OMPO													
Rate 125 g/ha	4	38	93	98	105	107	108	109	110 111		112	113	114 1	116	117	119 1	131 1	132 1	137 1	138 1	46 1	47
Postemergence																						
Annual bluegras	1	ı	20	ı	ŧ	ហ	15	10	1	t	1	ı	0	20	1	ı	40	ŧ	ı	0	10	ı
Barley (winter)	ı	,	0	t	ı	ហ	10	40	i	ı	ı	1	ស	10	ı	1	0	ı	ı	0	10	ı
Blackgrass	1	•	30	١	ı	80	ស	30	١	ı	ı	1	0	40	1	ı	20	ı	ı	50	25	ı
Blk nightshade	ı	•	0	•	1	30	30	40	١	1	ı	ı	20	20	1	ı	20	ı	1	20	20	ı
Chickweed	ı	ı	0	ŧ	ŧ	0	0	0	1	ı	•	1	10	0	1	1	10	ı	1	0	0	ı
Common poppy	ı	•	0	•	ı	0	0	30	1	ı	ı	1	0	0	ı	ı	0	ı	1	20	10	ı
Deadnettle	i	1	0	t	ı	വ	20	0	ı	ı	1	ı	20	0	ı	i	30	1	۱	0	10	ı
Downy brome	ı	ı	0	ı	ı	10	0	0	١	1	ł	ı	0	0	1	1	0	ı	١	0	10	ı
Field violet	ı	•	0	•	1	25	0	10	ι		•	1	Ö	0	1	1	0	ı	١	10	0	•
Galium	ı	•	0	•	ı	30	10	20	ı	ı	1	ı	10	40	1	1	10	ı	1	20	0	ı
Green foxtail	ı	1	0	1	1	30	15	30	ı	ı	ı	ı	20	70	ı	1	70	ı	1	15	20	ı
I. Ryegrass	•		0	1	1	20	Ŋ	10	l	•	ı	:	10	20	•	ı	0	ı	1	0	10	ı
Joint d goatgra	•	i	0	ı	ı	10	10	10	1	1	•	•	15	20	ı	ı	0	ı	•	0	12	ı

Kochia	ł	1	0	1	ı	20	40	30	t	ı	ı	,	20	c		ı	c		-	i	,	
Lambsquarters	i	1	0	ı	ı	7.	20	20	1	,				,			<b>.</b>	ı	i .		' -	
LS canarygrass	1	1	c	ı	ı	20	20	) (	ı	ı	ļ	l		2 0	ı	ı	<b>-</b> (	ı	<del>,</del>		•	
Rane	1	1	• •			9 6	) C	4 L	)		•	i	<b>.</b>	2	ı	ı	0	ı	٦ ،		•	
nape Bodwoot nimes	)	1	<b>o</b> 0	ı	•	2 .	0 40 0 40	2 (	ı	ı	1	ı		0	ı	ı	0	1	<u>-</u>		٠	
Redroot pigweed	ı	ı	<b>o</b> (	•	ı	10	20	20	ı	1	,	,	15	0	,	1	0	1	7		•	
Kussian thistle	ı	1	0	ı	t	0	0	0	ı	1		1		0	,	1	0	,	•			
Scentless chamo	ı	ì	0	ı	1	0	0	0	1	ı	,	ı	0	0	ı	1			· c			
Spring Barley	•	1	0	i	ı	0	20	30	,	ı	ı	ı			ı	ı	, c		<b>i</b>		ا	
Spring Wheat	ı	1	0	,	ł	S	10	30	ı	i	ı			, 0	,		, c	· I				
Sugar beet	ı	•	0	ı	ı	10	10	30	ı	1	ı			0	ı		, c					
Sunflower	ı	•	0	ı	ı	20	30	30	,	,	ı	ı				ı	, c	1	, ,			
Veronica hedera	1	t	0	ı	ı	0	10	20	•	ı	1	ı					) C	ı				
Wheat (winter)	0	10	65	30	10	30	20	22	0	0	0	30	101	10	10	10 6	200		. 01		, ,	
Wild buckwheat	ŧ	1	0	ı	•	0	20	10	ı	ı	,											
Wild mustard	1	ı	0	1	1	90	10	40	ı	1	ı	,		30	1	ı		ı				
Wild oat	ı	ı	0	1	ı	Ŋ	ហ	0	ı	ı	ı			0	ı	ı		ı				
Windgrass	1	i	70	•	ı	90	90	90	1	ı	ı	1		0,0	t	1	9 9	ı	0			
Table E								ຽ	COMPOUND	ON COL						'	·		•			
	148	151	158	170	191	192 1	199 2	2112	118 2	219 22	5 2	41 2	42 24	43 24	45 271	11 27	2	77 285	5 287	7 293	295	
Postemergence																	) 1	l	1	1	3	
Annual bluegras	1	1	•	ı	ı	1	ı	ŧ	ı	ı	ı	1	20	ı	ι	ı	1	ı				
Barley (winter)	ı	1	1	1	ı	ı	ı	i	ı	,	ı	ı	0	ı	ı	i	ı	ı			,	
Blackgrass	1	1	1	1	ı	ı	,	ı	ı	ı	ı	,	0	ı	ı	,		١ ١				
Blk nightshade	•	•	ı	ŧ	t	ı	,	1	,	ı	ı	1	30		ı	,		l <b>1</b>				
Chickweed	i	1	•	,	ı	ı	1	ı	1	ı	ı	1	00	,	ι	ı	,	ı		,		
Common poppy	ı	•	1	t	,	ı	ι	1	ı	ı	ı	1	40	,	ı	ı	1	ı				
Deadnettle	ŧ	ŧ	1	ı	ı	1	1	ı	ı	ı	i	ı		1	ŧ	1	ì	1				
Downy brome	1	ı	1	i	ı	1	ı	ı	ı	ı	ı		30	ı	ι	ı	,	ı				
Field violet	1	1	1	ı	ı	ı	ł	ı	ı	1	ı	1	0.50	ı	ı	ı	ı	١				
Galium	1	1	•	ı	1	ı	,	ı	ı	ı	ı	1	20	ı	ŧ	,				,		
Green foxtail	1	1	ı		ŧ	ı	•	1	ı	ı	1	1	30	ı	ι	,	١ ١	ı 1				
<ol> <li>Ryegrass</li> </ol>	•	•	1	1	1	ı	•	ı	ı	ı	ı		0	,	ι	,	,					
Jointed goatgra	ı	1	1	ı	ŀ	ı	ı	ı	ı	ı	,	ı	0	ı	ı	,	,	1				
Kochia	ı	ı	1	ı	•	1	1	ı	ı	ı		1	9	,	ι	í	ł	ı	,			, ,
Lambsquarters	1	1	1	F	ı	•	1	1	ı	ı	ı	ı	0	ı	ı	ı		,				
LS canarygrass	ı	1	1	ı	•	ı	1	1	ı	1	ı	1	10	ı	ı	ı	ı	ı	ı	·		

Rape	ŧ	ı	•	٠	ı	ı	1	1	,	ı	ı	1	0	1								
Redroot pigweed	1	ı	1	ı	1	١	ı	ı					2	,	i	ı	ı	ı	ı	ı	1	1
Russian thistle	•	'	1	ı	1	ı	ı		1	•	1		<b>&gt;</b> c	j .	ı	ı		1	ı			1
Scentless chamo	•	•	1	,	1	1	ł	ı	,	,		•	<b>S</b>	)		ł	ı	ı		ı	ı	ı
Spring Barley	ı	1	١	•	1	١	1	ı	1	1	ı		0.0			1 1		l I		ı	ı	ı
Spring Wheat	1	1	•	1	ł	١	ı	1	ı	1	ı	1	2 0	,		+ 1			ı	i		ı
Sugar beet	•	•	1	1	1	1	ı	ı	ı	ı	ı	1	3 12	١ ١	ı i	1 1		1				ı
Sunflower	ı	1	1	1	ı	ı	١	ı	ı	1	ı	1	3 5	, ,		•	ı	ı	ı		ı	•
Veronica hedera	1	1	!	ı	1	ì	1	1	ŧ	1	ı	,	) I	, ,		l I	1	ı	•			ı
Wheat (winter)	10	70	15	75	30	30	22	20	9	20	75	20	10	70		י ב	۱ و	ı c	۱ (	1 5	י נ	1 6
Wild buckwheat	t	•	ı	1	•	ı	ı		ı		1	ı I	10	, ,	, ,	) I	) I	> 1	2			2
Wild mustard	•	ı	ı	ı	1	ı	ı	1	ı	1	ı	ı	20	J		,						ı
Wild oat	1	1	1	ı	:	i	ı	ı	,	1	•	,	; =	ı		(			ı	_	ı	ı
Windgrass	ı	ı	•	1	ı	ŧ	ı		•	,	ı	1	و د	ı				1	•		i	•
Table E								ö	COMPOTINE	E			)				l	,	•	ı	ı	ı
Rate 125 g/ha	299	310	314	315	317	350	351	353 3	354 3		370 3	371 3	372 3	375 3	387 3	ä						
Postemergence															)							
Annual bluegras	1	1	1	1	•	1	•	ı	ı	ı	ı	ı	ı	ı	ı	ı						
Barley (winter)	I	•	١	ł	ı	ı	1	ı	ı	,	1	ı	ı	ŀ	1	ı						
Blackgrass	•	ı	ŀ	1	•	1	1	t	1	ı	ı	ı	1	ı	,	i						
Blk nightshade	•	•	ı	ı	1	ı	1	ı	1	1	ı	ı	1	ı	1	•						
Chickweed	1	ı	1	1	1	ı	ı	1	•	ı	1	•	1	ı	ı	ı						
Common poppy	1	•	ı	ı	1	ı	1	;	•	ı	ı		ı	ı	4	ı						
Deadnettle	•	ı	1	1	ı	1	ı	1	,	ı	ı	•	ı	1	ı							
Downy brome	•	ı	ı	1	•	1	•	ı	1	ı	ı	ŀ	ı	1	,	,						
Field violet	•	1	ı	ŧ	1	1	1	ı	•	1	1	•	ı	j		ı						
Galium	ı	ı	ı	ł	ı	•	1	1	ı	ı	,	ı	1	ı		۱ ا						
Green foxtail	1	1	1	1	1	1	ı	ı	ı	•	1	ı	ı	1	,							
I. Ryegrass	1	1	1	1	ı	1	ı	1	,	•	ı	ı	;	ı								
Jointed goatgra	•	1	1	t	•	١	1	ı	ı	1	ı	ı	1	J	1							
Kochia	•	ŧ	ı	ı	•	1	1	ı	ı	•	ı	1	ı	ı	ı	•						
Lambsquarters	ı	ŧ	1	ı	1	ı	•	ı	ı	,	ı	ı	•	,	•	•						
LS canarygrass	í	ŧ	1	•	1	ı	1	ı	١	ŧ	ı	ı	ı	ł	ı	•						
Rape	ı	•	1	t	•	1	ı	•	1	ı	ı	ı	ı	ı	ı	ı						
Redroot pigweed	ŧ	•	1	1	1	ſ	ı	•	ı	,	ı	,	ı	ı	ı							
Russian thistle	ı	•	•	ı	1	1	,	1	1	ı	ı	1	ı	ı	ı							

Scentless chamo	1	ı	ı	1	ı	1	ı	ı	ı	,	,	ı	ı	ı	ı	ı						
Spring Barley	ł	•	ŧ	ı	ı	ŧ	ı	1	ı	ì	ı	ı	ŧ	1	ı	•						
Spring Wheat	,	ı	1	ı	•	ı	ı	ı	,	1	t	ı	ı	ı	ı	ı						
Sugar beet	ı	ı	ı	ı	ı	ı	ı	,	ı	1	ı	ı	1	ı	ı	ı						
Sunflower	1	1	ı	ı	1	ı	ı	1	ı	ı	ı	ı	1	ı	1	•						
Veronica hedera	ı	i	ı	t	ı	ı	;	ı		ł	ı.	1	ı	ı	ı	,						
Wheat (winter)	09	80	9	70	70	20	09	20	30	20	70	70	9	35	20	30						
Wild buckwheat	ı	ı	i	ı	ı	ı	ı	1	ı	١	ı	ı	ı	ı	1	ı						
Wild mustard	ı	•	ı	1		1		ı		1	ι	ı	ı	ı	,	ı						
Wild oat	ı	ı	1	1	•	ı	1		ı	,	ι	1	ı	1	ı	ı						
Windgrass	ı	•	i	ı	1	ı	ı	ı	ı	,	ι	ı	ı	1	ı	i						
Table E								ខ	MPOU	Ð												
Rate 125 g/ha	7	38	93	98 1	105 1	107 1	108 1	09 1	109 110 111		112 1	113 1	114 1	116 1	117 1	119 1	131	132	137	138	146	147
Preemergence																						
Annual bluegras	ı	1	20	•		80	09	40	ı	1	ι			9	ı		70	1	ı	1	9	1
Barley (winter)	10	0	20	20	0	20	20	10	0	0	10	10		30	20	10	65	10	20	_	10	10
Blackgrass	30	25	70	30		85	75	9	20	0	20			20	20		20	20	20	9	85	20
Blk nightshade	ı	ı	65	ı	•	95	85	75	ı	1	ı			80	ı		70	1	ı	_	85	ı
Chickweed	ı	ı	20	ı	1	20	40	40	ı	•	ı	ı		00	1	1	100	ı	1		30	ı
Common poppy	ı	ı	1	ı	ı			,	ı	1	ı	ı		ı	ı	ı	ı	ı	ł	1	100	ı
Deadnettle	ı	1	10	1	1			20	ı	ı	ı	ı		92	ı	ı	30	ı	ı		40	ı
Downy brome	•	•	9	1				0	ı	ŧ	1	1		9	•	ı	82	ı	•	90	9	ı
Field violet	ı	ı	10	ı				20	ı	ı	ı			20	1	ı	20	ı	1		10	ı
Galium	1	ı	15	1	-			00	ı	1	•			00	ı		09	•	•		40	ı
Green foxtail	20	80	80	09				82	09	0	20			20	9		001	9	15		20	22
I. Ryegrass	20	0	20	20	30			00	0	0	0	20		30	45	35	100	20	20		20	20
Jointed goatgra	ı	1	70	ı				20	1	ŧ	ı			30	٠		20	ı	1		45	ı
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I. Ryegrass	Jointed goatgra	Kochia	Lambsquarters	LS canarygrass	Rape	R droot pigweed	Russian thistle	Scentless chamo	Spring Barley	Spring Wheat	Sugar beet	Sunflower	Veronica hedera	Wheat (winter)	Wild buckwheat	Wild mustard	Wild oat	Windgrass

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## Test F Protocol

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Abutilon theophrasti (ABUTH), Chenopodium album (CHEAL), Amaranthus rudis (AMATA), Setaria faberii (SETFA), Panicum dichotomiflorum (PANDI), and Digitaria sanguinalis (DIGSA) were grown from seed in pots of an artificial potting mixture in a greenhouse. Compounds of the present invention were applied at 70 and 105 g ai/ha preemergence. Rimsulfuron was applied at 8.8 and 17.5 g ai/ha. Mixtures of the compounds of the present invention and rimsulfuron were also applied.

Following application, the plants were maintained by watering as needed. A fertilizer solution of Peter's 20-20-20 (10 pounds/5 gallons of water) plus Sprint 330, a Iron Chelate micronutrient, (113.5 grams/5 gallons of water) was injected into the water with an Anderson fertilizer injection system to provide approximately 218 ppm of nitrogen with each watering. Artificial lighting was used to supplement natural light to produce a 14 hour photoperiod and an additional one hour light period was used between 1:00 am to 2:00 am for a night interruption. Greenhouse temperatures were targeted for 27 °C in the day and 21 °C at night. At 21 days after treatment, all plants were evaluated for injury as compared to control plants that were sprayed only with non-phytotoxic solvent. Mean plant response ratings, summarized in Table F, are based upon a 0 to 100 scale where 0 is no effect and 100 is complete control.

Colby's equation was used to calculate the expected additive herbicidal effect of the mixtures of Compound 21 and the mixture partners listed above. Colby's equation (Colby, S. R. "Calculating Synergistic and Antagonistic Responses of Herbicide Combinations," Weeds, 15(1), pp 20–22 (1967)) calculates the expected additive effect of herbicidal mixtures, and for two active ingredients is of the form:

$$P_{a+b} = P_a + P_b - (P_a P_b / 100)$$

wherein P<sub>a+b</sub> is the percentage effect of the mixture expected from additive contribution of the individual components,

P<sub>a</sub> is the observed percentage effect of the first active ingredient at the same use rate as in the mixture, and

P<sub>b</sub> is the observed percentage effect of the second active ingredient at the same use rate as in the mixture.

Combinations of Compound 113, Compound 131, and Compound 242 with rimsulfuron are surprisingly found to provide better control of certain weeds than expected by calculation from the Colby's equation, thus demonstrating synergism. Weeds other than those specifically listed are also controlled by mixtures of compounds of the present invention and rimsulfuron. Different ratios of compounds of the present invention with rimsulfuron, and different formulation types, also provide useful weed control from the combination of the two herbicides.

366 <u>TABLE F</u>

		AE	BUTH	СН	EAL
Cmpd. 113	Rimsulfuron	Observed	Expected†	Observed	Expected†
Alone					
70	0	45	-	15	-
105	0	65	-	35	_
0	8.8	20	-	25	
0	17.5	40		60	_
Mixtures					
70	8.8	75	56	60	36
70	17.5	85	67	95	66
105	8.8	90	72	100	51
105	17.5	80	79	100	74

		AM	ATA	SE.	ГГА
Cmpd. 113	Rimsulfuron	Observed	Expected†	Observed	Expected†
Alone					
70	0	35		60	_
105	0	25		65	-
0	8.8	10	-	75	
0	17.5	15		90	-
Mixtures					
70	8.8	15	23	95	90
70	17.5	70	45	100	96
105	8.8	25	33	100	91
105	17.5	90	36	100	97

		PA	NDI	DIGSA			
Cmpd. 113	Rimsulfuron	Observed	Expected†	Observed	Expected†		
Alone							
70	0	100	-	95	-		
105	0	95	_	70			
0	8.8	75	-	95	_		
0	17.5	95	_	100	-		

Mixtures					
70	8.8	90	100	100	100
70	17.5	100	100	100	100
105	8.8	100	99	90	99
105	17.5	85	99	100	100

		AB	UTH	CHEAL			
Cmpd. 131	Rimsulfuron	Observed	Expected†	Observed	Expected†		
Alone							
70	0	40	_	60	_		
105	0	60	_	95	-		
0	8.8	_20	_	25			
0	17.5	40	-	60			
Mixtures							
70	8.8	50	52	95	70		
70	17.5	85	64	100	84		
105	8.8	80	68	95	96		
105	17.5	75	76	100	98		

		AM	ATA	SE.	ΓFA
Cmpd. 131	Rimsulfuron	Observed	Expected†	Observed	Expected†
Alone					
70	0	50		35	
105	0	40	_	65	_
0	8.8	10	_	75	
0	17.5	15		90	
Mixtures					
70	8.8	95	54	85	84
70	17.5	100	58	100	93
105	8.8	95	46	95	91
105	17.5	85	49	100	97

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		PA	NDI	DIC	SSA
Cmpd. 131	Rimsulfuron	Observed	Expected†	Observed	Expected†
Alone					
70	0	100	-	100	
105	0	95	_	100	
0	8.8	75	-	95	_
0	17.5	95	_	100	_
Mixtures					
70	8.8	75	100	100	100
70	17.5	95	100	100	100
105	8.8	100	99	100	100
105	17.5	100	100	100	100

		AE	UTH	CH	IEAL
Cmpd. 242	Rimsulfuron	Observed	Expected†	Observed	Expected†
Alone					
70	0	50	-	30	-
105	0	70	-	100	~
0	8.8	20	-	25	-
0	17.5	40	-	60	
Mixtures					
70	8.8	85	60	100	48
70	17.5	80	81	85	72
105	8.8	85	76	100	100
105	17.5	80	82	100	100

		AM	ATA	SETFA			
Cmpd. 242	Rimsulfuron	Observed	Expected†	Observed	Expected†		
Alone							
70	0	20	_	60			
105	0	55	_	75			
0	8.8	10	, <b>-</b>	75	_		
0	17.5	15	_	90	_		

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Mixtures					
70	8.8	70	28	90	90
70	17.5	85	32	100	96
105	8.8	35	60	75	94
105	17.5	65	62	100	97

		PANDI		DIGSA	
Cmpd. 242	Rimsulfuron	Observed	Expected†	Observed	Expected†
Alone					
70	0	60	-	100	_
105	0	80	<del>-</del>	100	÷
0	8.8	75	_	95	_
0	17.5	95	_	100	
Mixtures					
70	8.8	95	90	100	100
70	17.5	100	98	100	100
105	8.8	100	85	100	100
105	17.5	100	99	100	100

- \* Data are reported as percent control.
- † Expected from the Colby Equation

## Test G protocol

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In soil-containing pots were planted seeds of maize hybrid P33G26 that was previously treated with dichlormid, fenchlorazole-ethyl, and naphthalic anhydride (or no safener). The soil surface was then treated with several rates of Compound 131 or Compound 146 dissolved in a non-phytotoxic solvent using a flat-fan sprayer calibrated to deliver 310 L/ha. Treatments were replicated 4 or 5 times. The treated and untreated plants were allowed to grow in a greenhouse using supplementary artificial lighting with a day-length of 14 hours, with the temperature maintained at about 27 °C during the day and 24 °C during the night. Plants were kept watered with a dilute balanced fertilizer solution.

At 28 days after application, the treated plants were compared with untreated controls and visually evaluated. Mean plant response ratings, summarized in Table G, are based upon a 0 to 100 scale where 0 is no effect and 100 is complete control.

370 TABLE G\*

		Safener			
Compd	Rate (g ai/ha)	None	Dichlormid	Fenchlorazole- ethyl	naphthalic anhydride
131	560	95	40	96	ND†
131	280	91	3	92	ND†
131	140	88	3	91	0
131	70	80	3	85	ND†
146	1120	85	4	85	35
146	560	80	4	78 ·	ND†
146	280	73	1	74	ND†
146	140	49	1	3	0

- Data are reported as percent control.
- † naphthalic anhydride treatment severely inhibited corn germination. Where corn did satisfactorily emerge, it was safened against the herbicide damage.

As can be seen from Table F, in the absence of any safener, both Compound 131 and Compound 146 at rates ranging from 70 to 560 g/ha, and 140 to 1120 g/ha respectively, were severely injurious to maize. With the exception of Compound 131 at the rate of 560 g/ha (entry 1 in Table F), the presence of dichlormid reduced the injury to an insignificant level from which the corn would be expected to recover with no long-term deleterious effects. The presence of fenchlorazole-ethyl, however, did not provide safening effects except for low rate of Compound 146 (Entry 8 in Table F). The dramatic safening effects observed here were unexpected and surprising. Based on this discovery, it is anticipated that other compounds known to safen herbicides on corn, soybeans or other crops are useful in safening compounds of the present invention on corn, soybeans or other crops.

## Test H protocol

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Mixtures of the herbicide and safeners were applied to pots of a soil mixture previously sown with corn. Pioneer hybrid P33G26 corn was sown in pots containing a sterile mix of 60% sassafras soil and 40% Metro Mix 360 ® growing medium (pH 6.7, O.M. 2%). Test compounds were dissolved in AGWT (a mixture of 0.25% Tween 20 surfactant, 5% water, 5% glycerin and 89.75% acetone) and sprayed on the soil as pots passed under a stationary 8002E nozzle. Treatments were applied at a 33 gal/acre rate of the AGWT carrier. After treatment, the test pots were placed in the greenhouse and watered. There were two replications for each treatment. Each pot contained eight corn seeds. The pots within each

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replication were placed in random positions on greenhouse benches. Test plants were fertilized as they were watered with approximately 200 ppm of N (as water soluble 20-20-20 fertilizer) which was metered into the water lines with a fertilizer injector. Daytime temperature was 23-30 C° and night time temperature was 18-25 C°. The test plants were supplemented with artificial lighting. The lights were activated whenever the natural light intensity dropped below the programmed threshold. Day length was maintained for approximately 14 hours.

The test was evaluated approximately 12 days after treatment. Treated plants were visually compared to untreated controls and rated on a scale from 0 to 100 where 0 is no effect and 100 is plant death. The results summarized in Table H are the averages from the two replications for each treatment.

TABLE H

Compd	Rate (g ai/ha)	None	Dichlormid 70 g/ha	Dichlormid 140 g/ha	Dichlormid 280 g/ha
113	70	18	0	0	0
113	140	25	20	0	0
113	280	53	35	28	33

Compd	Rate	None	Benoxacor	Benoxacor	Benoxacor
	(g ai/ha)		70 g/ha	140 g/ha	280 g/ha
113	70	18	0	0	0
113	140	25	0	0	8
113	280	53	38	18	20

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As shown in Table H, both dichlormid and benoxacor functioned very effectively as safeners for Compound 113. Without safener, Compound 113 at rates from 70 to 280 g/ha produced corn injury of 18 to 53%. In the presence of dichlormid or benoxacor at rates from 70 to 280 g/ha, corn injury was reduced to from 0 to 38%. The dramatic and unexpected safening by dichlormid and benoxacor demonstrates the potential utility of mixtures of these compounds with Compound 113, or other similar compounds of this invention, for the control of undesired vegetation in corn production.